

# Technical Documentation TransL2 / TransArc / TransLPe

## Access Codes for data transfer between scale and PC

December 2004

Current English version: December 2007

## About Using the Access Codes:

Access Codes sometimes contain digits that are only intended for use with L2 scales and not MIRA scales. In this document, such digits are highlighted in grey, and marked, "only for L2." To use these codes with MIRA scales, simply replace these digits with zeros (other characters entered will simply be ignored).

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## I About TransL2 / TransArc / TransLPe

### General

The TransL2 (16 and 32-bit versions), TransArc and TransLPe programs provide connectivity between a PC and a scale network, comprising of L2 scales and / or MIRA scales and / or an Infoline unit. It's therefore possible to read data from the scale network into the PC (e.g. for Network Status, Cash Register Status, Sales information, Reports and Journals) and to send data from the PC into the scale network - scale data entered or edited in a PC can be saved on scales making up the network (Data Entry).

This document describes the Access Codes necessary for this exchange of data to take place. An Access Code normally consists of a command part (i.e. command sent from the PC to the scale network) and a response part (i.e. a response from the scale network to the PC).

The use and syntax of these codes is identical for the TransL2, TransArc and TransLPe programs.

Since a modem usually requires a serial interface, data transmission using a modem can only be accomplished with TransL2 (i.e. TransArc and TransLPe do not use serial interfaces).

### TransL2

Before using TransL2 (16 or 32-Bit Version), please ensure that a serial cable is connected between the COM1 or COM2 port of the PC and channel A or channel B (B only applies to L2 scales) of one scale making up the scale network (see the L2-Service manual, folder 2, register 5, point 2). The following files should be available on the PC's hard drive:

- TL2.EXE           ⇒ Self extracting packed file containing the executable files mentioned below
- TRANSL2.EXE   ⇒ TransL2 communication program
- TRANSL2.CFG   ⇒ Configuration file for TransL2, automatically created

The TL2.EXE program contains all TransL2 components in packed form. Before unpacking, you are advised to copy TL2.EXE into its own specific directory (e.g. <c:\transl2\>). To unpack the above-mentioned files, simply run TL2.EXE. The TRANSL2.CFG file is automatically created after the initial running of TRANSL2.EXE. It contains the configuration data (see Appendix for optional settings). Run TRANSL2.EXE to start the TransL2 program:

E.g. ⇒ Terminal Mode / Enter Access Code directly

```
C:\TRANSL2>transl2
```

The cursor should now be flashing at the beginning of the next line. TransL2 is now active and is ready for use. The PC connected can now be used to communicate with the scale network. The desired Access Code number can be entered and confirmed with the Return key (this constitutes a command). Depending on the Access Code used, it can take a few seconds to receive a response (i.e. a numeric response code) from the scale network. To end the program, Type <Ctrl Z> (a ^Z should be echoed onto the screen).

E.g. ⇒ File Mode - Access Codes are saved in a file

```
C:\TRANSL2>transl2-i<<inputfile>>-o<<outputfile>>
```

In this mode, Access Code(s) are entered into an ASCII file. The name of this file is then entered as <<inputfile>>. The response of the scale(s) is saved in the ASCII file <<outputfile>>.

### About TransArc

Unlike TransL2, to be able to use TransArc, a special TransArc card has to be installed into the host PC. This card enables the PC to be directly integrated into the ArcNet scale network. This results in a significantly improved data transfer rate in comparison to TransL2.

The delivery content, installation and use of TransArc is fully described in "Maintenance Manual, TransArc / TransArc 32 Communications program (ME-22000763). The manual can be found in the L2-Service manual/folder 2/Register 8.

### About TransLPe

The TransLPe (TRETNET.EXE) program is used to exchange data between MIRAE scales (Mira-Ethernet) and a PC. Communication takes place using the TCP/IP protocol, via a network card built into the PC. More information on TransLPe can be found in the appendix.





## II Data Structure of Access Codes in the Record-Header

### ASCII-Header - Structure

| Byte | Description            | Valid range  | Meaning   |
|------|------------------------|--------------|---|
| 0    | CMD/RSP                | 0..3         | CMD<br>RSP<br>⇒ Command<br>⇒ Response           |
| 1    | ID<br>[identification] | 00001..99999 | Access Code                                     |
| 2    |                        |              |   |
| 3    |                        |              |   |
| 4    |                        |              |   |
| 5    |                        |              |   |
| 6    | CTL<br>[Control]       | 0..F         | Status ⇒ Response status of (only in RSP)       |
| 7    |                        | 0..F         | Data server ⇒ Additional parameters (CMD/RSP)   |
| 8    |                        | 0..F         | Key ⇒ Offset for index field (only in CMD)      |
| 9    |                        | 0..F         | Access ⇒ Access to particular records (CMD/RSP) |
| A    | DPT<br>[department]    | 0000..9999   | Department number                               |
| B    |                        |              |   |
| C    |                        |              |   |
| D    |                        |              |   |
| E    | DEV<br>[device]        | 00..99       | Scale number                                    |
| F    |                        |              |   |

### ASCII-Header - Meaning

CMD/RSP: X      0 = single command  
                   1 = single response  
                   2 = don't care  
                   3 = multiple response

ID:            X X X X X    Access Code number

CTL:           X X X X    Control  
 For CTL, bytes 6 (status), 7 (additional parameters), 8 (key field) and 9 (access to particular records) are used. In contrast to byte 6, bytes 7, 8, and 9 sometimes have different meanings in different functional blocks of Access Codes (i.e. the blocks code 2XX, code 4XX, code 5XX, code 8XX). This is described on the first pages of each respective chapter.

X \_ \_ \_        Byte 6 - Status (only with RSP)  
 The first position of CTL (Byte 6, Status) is set with all responses (RSP) from the scale network. It reveals information relating to the status of a response. The meanings of values that the status byte can assume are the same for all functional blocks of Access Codes. A status byte has no meaning in commands (CMD).

A Status Byte can assume the following values:

| Status  | Meaning                | Description                               |
|---------|------------------------|---|
| 0 _ _ _ | All OK                 |   |
| 1 _ _ _ | file not created       |   |
| 2 _ _ _ | no free record         |   |
| 3 _ _ _ | file corrupt           |   |
| 4 _ _ _ | not found              | (record not found)                        |
| 5 _ _ _ | wrong key              |   |
| 6 _ _ _ | double key             | (several records exist with the same key) |
| C _ _ _ | (12) bad parameter     | (bad parameter input)                     |
| D _ _ _ | (13) general error     |   |
| E _ _ _ | (14) undefined command |   |
| F _ _ _ | (15) not executable    |   |

\_ X \_ \_     Byte 7 - Data Server / additional parameters  
 These parameters have different meanings for different functional groups of Access Codes.

In Access Codes 2XX:

CMD 2: Data Server check Data Record  
 Check if records in the scales are identical or not.  
 RSP 2: Data equal                    ⇒ Records are identical  
 F: Data not equal                    ⇒ Records are not identical

In Access Codes 4XX. and 5XX

| Sales Level                    | Sales Type  |
|--------------------------------|---|
| 0: Sales Level 1               | 0: Service Counter Sales (i.e. cash register sales) |
| 1: Sales Level 2               | 4: Self-Serve Sales (i.e. cash register sales)      |
| 2: Sales Level 3 (only for L2) | 8: Pre-pack Sales                                   |
| 3: Sales Level 4 (only for L2) | C: Inventory Value                                  |

To combine a Sales Level with a Sales Type, the Sales Level should be added to the Sales Type. E.g. 6 corresponds to a Self-Serve Sale at Sales Level 3, and B (hex value for decimal 11) corresponds to a Pre-pack Sales at Sales Level 4.

In Access Code 8...byte 7 contains a don't care value

\_ \_ X \_     Byte 8 - key / Offset for index fields (only for CMDs)  
 The setting of this byte in individual Access Codes determines how the searching through lists is performed. E.g. in Access Code 207, the EAN number (secondary index 1) can be used as the index field instead of the PLU number (primary index). For an EAN number, or an article number, respective offset values must be used.

For Access Codes 2XX. and 4XX:

0: Primary key first field after the scale number  
 1: Secondary key 1     second field after the scale number  
 2: Secondary key 2     third field after the scale number  
 3: Secondary key 3     fourth field after the scale number

Additionally, for Access Codes 2XX

8: Indication of department and scale numbers / help functions for error tracing  
 To be used by Access Codes, not normally containing department and scale numbers in their responses (RSP). By using "8" in a command, the response will contain the department number and scale number from the record that was just read.

In Access Codes 5XX

4: Only for PLU / article group with sales (Access Codes 504, 505)  
 8: Only for Special Offer PLUs (Access Code 505)

In Access Codes 8XX, byte 8 contains a don't care value.

\_ \_ \_ X     Byte 9 - Access to particular records  
 When entering an Access Code, the access byte should be set to one of the following values, depending on whether the writing to, reading from, or deletion – of records is desired.

In Access Code 2XX

| Access Type | Meaning  |
|-------------|--|
| _ _ _ 0     | write                                    write to a record                         |
| _ _ _ 1     | delete                                  delete a record                            |
| _ _ _ 2     | read equal                            read from the specified record               |
| _ _ _ 3     | read greater or equal                read from the specified record the next one   |
| _ _ _ 4     | read less or equal                    read from the specified record the prev. one |
| _ _ _ 5     | read greater                           read the next record                        |
| _ _ _ 6     | read less                                read the previous record                  |
| _ _ _ 7     | read all                                 read all records                          |
| _ _ _ 8     | delete all                               delete all records                        |

*In Access Codes 4XX*

| Access Type | Meaning               | Description                               |
|-------------|-----------------------|---|
| ___2        | read equal            | read the specified record                 |
| ___3        | read greater or equal | read the specified record or the next one |
| ___5        | read greater          | read the next record                      |

*In Access Code 5XX*

| Access Type | Meaning          |                        |
|-------------|------------------|------------------------|
| ___6        | write to Channel | write to the interface |

*In Access Code 8...*

| Access Type | Meaning               |   |
|-------------|-----------------------|---|
| ___2        | read equal            | read the specified record                     |
| ___3        | read greater or equal | read the specified record or the next one     |
| ___4        | read less or equal    | read the specified record or the previous one |
| ___5        | read greater          | read the next record                          |
| ___6        | read less             | read the previous record                      |

DPT:        X X X X    Department Number:  
 Most data is saved separately for each department, so department numbers must be specified (the exception is for example Access Code 204, where department number "0000" is given).

DEV:        X X        Scale Number:  
 Can (according to Access Code) be used in accordance with the department number, when the scale data is to be addressed (for all scales of a department -> specify scale number "00").

|  |
|--|
| Command & Response Structures – An Explanation of the Various Field Types and their Attributes |
|--|

N = numerical value, C = character, F = flags, [#] = array Type

Every Access Code contains two structures:

- ⇒ one for commands
- ⇒ one for responses

The input command structure is used to send commands to the scale network. This enables records to be sent to, modified or read from scales in the network.

The response structure enables responses to be communicated back to the PC for every command sent.

Records are closed with CR/LF (Carriage Return / Line Feed).

If a record contains flag bytes, they should be read in the following way:

Every position of a flag-byte (Type F) contains a hexadecimal word (0-F) and thus represents in the binary system a value of 4 bits (e.g. Fh=1111b, 6h=0110b). A 4 position flag, which is represented by 4 ASCII characters, contains 16 Bits, with the most significant valued flag at the leftmost position (i.e. a binary value made up of 16 bits would be represented by 4 ASCII bytes with hexadecimal values as follows:

|         |             |             |             |             |
|---------|-------------|-------------|-------------|-------------|
| Flag    | X           | X           | X           | X           |
|         | -----       | -----       | -----       | -----       |
| Bit-No. | 15 14 13 12 | 11 10 09 08 | 07 06 05 04 | 03 02 01 00 |

Each flag can assume a hexadecimal value from 0-F

|                  |             |             |             |             |
|------------------|-------------|-------------|-------------|-------------|
| E.g.: Flag value | 8           | E           | 2           | A           |
|                  | -----       | -----       | -----       | -----       |
| Bit value        | 1 0 0 0     | 1 1 1 0     | 0 0 1 0     | 1 0 1 0     |
| Bit number       | 15 14 13 12 | 11 10 09 08 | 07 06 05 04 | 03 02 01 00 |

RMS (Received Message error Status)

For inactive scales within a network, additional information must be shown at the end of a response e.g. [ 2|15][ 4| 2].

These error messages are shown additionally in the response, when records have been modified or created (Access Codes 2XX) or when selective sales reports have been requested (Access Codes 4XX).

The below example shows two scales that have generated an error message during a status report:

Scale 2 Error 15 (F000h) ⇒ not executable (could not be shut down)

Scale 4 Error 2 (2000h) ⇒ no record available

### Special Inputs for Linefeed (LF) and char size (Character Size)

Some text labelled with SG (where SG is the German abbreviation for Font Size) allows the font size at the beginning of each line to be specified. In this case, the first character should be char(5) (control character) and then a value from "1-F" (i.e. 1-9 and A-F) should be used for the font size.

For text consisting of several lines, `char(210)` can be used to enter a line-feed (LF).

### Example

1 ⇒ Read all Article Group records from Department 1  
(Access Code 210)

```

00021000070001000001
|+---++---++---+++++
||      |      |      | +----- DATA key-#, begin with Article Group no. 1 ...
||      |      |      +----- DEV  all scales in the department
||      |      +----- DPT  Department 1
||      +----- CTL  read all (7)
|+----- ID  Access Code 210 (Article Group)
+----- CMD  individual command

```

2 ⇒ Insert or modify Article Group 5 in Department 1 in “scales”, and allocate it to Main Article Group 2 (Access Code 210)

```

00021000000001000005scales                                0002
|+---++---++---++---++----- 20 -----++---|
||      ||      ||      ||      ||
||      ||      ||      ||      ||      DATA Main Article Group no.  -+
||      ||      ||      ||      ||      DATA Article Group description
||      ||      ||      ||      +-
||      ||      ||      ||      +----- DATA key-#, Article Group no. 5
||      ||      ||      +----- DEV Scale independent
||      ||      +----- DPT Department 1
||      +----- CTL create/modify(0)
|+----- ID Access Code 210 (Article Group)
+----- CMD individual command

```

## III Overview - Scale Types, Applications and Applicable Access Codes

### III-A Access Codes for Data Entry - Codes 2XX

Access Code Usage for: 2 ⇒ TransL2 / a ⇒ TransArc / e ⇒ TransLPe

SC ⇒ Service-Counter, SS ⇒ Self-Service, PP1 ⇒ Pre-Pack-1, PP2 ⇒ Pre-Pack-2, CR ⇒ Cash-Register

| Device-<br>type | bC           |                         |                   | bPro              | LP/M<br>⇒ 1 Flash-EPROM |                         |             |               |                  |                         |             | LP/M<br>⇒ 2 Flash-EPROM's |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
|-----------------|--------------|-------------------------|-------------------|-------------------|-------------------------|-------------------------|-------------|---------------|------------------|-------------------------|-------------|---------------------------|------|------|------|---------|--------|------|---------|--------|------|---|-------|------|--------|--|
|                 |              |                         |                   |                   | Network                 |                         |             |               | Stand Alone      |                         |             | 05, 25                    |      |      |      |         | 06, 26 |      |         | 07, 27 |      |   | 08,28 |      | 03, 23 |  |
|                 | Applications | 05<br>SC,<br>SS,<br>PP1 | 03<br>CR.,<br>PP1 | 03<br>CR.,<br>PP1 | 01<br>SC,<br>PP1        | 02<br>SC,<br>SS,<br>PP1 | 04<br>LP-f1 | Info-<br>Line | 60<br>SC,<br>PP1 | 61<br>SC,<br>SS,<br>PP1 | 70<br>LP-f1 | SC, SS, PP1               |      |      |      | SC, PP1 |        |      | SS, PP1 |        |      | CR without<br>Inventory +<br>Order-Mode |       | CR   |        |  |
| ID              | LC05         | LC03                    | LR03              | LM01              | LM02                    | LM04                    | LK05        | LM60          | LM61             | LM70                    | LM05        | LM25                      | LF05 | LE05 | LM06 | LM26    | LE06   | LM07 | LM27    | LE07   | LM08 | LM28                                    | LM03  | LM23 | LF03   |  |
| 2               | 2            | 2                       | 2                 |                   |                         |                         |             |               |                  |                         | 2           | 2                         | 2    | 2    | 2    | 2       | 2      | 2    | 2       | 2      |      |   |       |      | 2      |  |
| 5               | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 6               | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 200             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 201             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 202             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 203             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 204             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 205             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 206             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 207             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 208             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 209             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 210             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 211             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 212             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 213             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 214             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 215             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 216             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 217             | 2/e          |                         |                   |                   | 2/a                     |                         | 2           |               |                  |                         | 2/a         | 2/a                       | 2/a  | 2/e  |      |         |        | 2/a  | 2/a     | 2/e    |      |   |       |      |        |  |
| 218             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 219             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 220             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 221             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 222             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 223             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 224             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 225             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 226             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 227             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 228             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 229             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 230             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 231             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 233             |              |                         |                   | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 235             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 236             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 237             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 238             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 239             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 242             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 243             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 244             | 2/e          | 2/e                     | 2/e               | 2/a               | 2/a                     | 2/a                     | 2           | 2             | 2                | 2                       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a  | 2/a     | 2/e    | 2/a  | 2/a     | 2/e    | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 245             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |
| 246             |              | 2/e                     | 2/e               |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        | 2/a  | 2/a                                     | 2/a   | 2/a  | 2/a    |  |
| 248             |              |                         |                   |                   |                         |                         | 2           |               |                  |                         |             |                           |      |      |      |         |        |      |         |        |      |   |       |      |        |  |

| Device-type  | bC          |          |          | LP/M<br>⇒ 1 Flash-EPROM |             |       |           |             |             |       | LP/M<br>⇒ 2 Flash-EPROM's |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
|--------------|-------------|----------|----------|-------------------------|-------------|-------|-----------|-------------|-------------|-------|---------------------------|------|------|------|---------|------|------|---------|------|------|-----------------------------------|------|--------|------|------|
|              |             |          |          | Network                 |             |       |           | Stand Alone |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
|              | 05          | 03       | 03       | 01                      | 02          | 04    | 05        | 60          | 61          | 70    | 05, 25                    |      |      |      | 06, 26  |      |      | 07, 27  |      |      | 08, 28                            |      | 03, 23 |      |      |
| Applications | SC, SS, PP1 | CR., PP1 | CR., PP1 | SC, PP1                 | SC, SS, PP1 | LP-f1 | Info-Line | SC, PP1     | SC, SS, PP1 | LP-f1 | SC, SS, PP1               |      |      |      | SC, PP1 |      |      | SS, PP1 |      |      | CR without Inventory + Order-Mode |      | CR     |      |      |
| ID           | LC05        | LC03     | LR03     | LM01                    | LM02        | LM04  | LK05      | LM60        | LM61        | LM70  | LM05                      | LM25 | LF05 | LE05 | LM06    | LM26 | LE06 | LM07    | LM27 | LE07 | LM08                              | LM28 | LM03   | LM23 | LF03 |
| 249          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 250          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 251          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 252          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 253          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 255          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 256          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 257          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 258          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 260          | 2/e         | 2/e      | 2/e      | 2/a                     | 2/a         | 2/a   | 2         | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 261          | 2/e         | 2/e      | 2/e      | 2/a                     | 2/a         | 2/a   | 2         | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 262          | 2/e         | 2/e      | 2/e      | 2/a                     | 2/a         | 2/a   | 2         | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 266          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 267          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 269          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 270          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 271          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 272          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 273          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 274          | 2/e         | 2/e      | 2/e      | 2/a                     | 2/a         | 2/a   | 2         | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 275          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 276          |             |          |          |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 277          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 278          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 279          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 280          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 281          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 283          |             | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 285          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 287          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 288          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 289          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 290          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 291          | 2/e         | 2/e      | 2/e      |                         |             |       | 2         |             |             |       |                           |      | 2/a  |      | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  |        |      | 2/a  |
| 292          |             | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      |      |      | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  |        |      | 2/a  |
| 293          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2/a  |      | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 294          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2/a  |      | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 295          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2/a  |      | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  |                                   |      |        |      | 2/a  |
| 296          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       | 2                         | 2    | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      | 2    |
| 297          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       | 2                         | 2    | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      | 2    |
| 299          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    |      | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      | 2    |
| 300          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      |      |
| 301          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      |      |
| 302          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      |      |
| 305          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      |      |
| 306          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      | 2    | 2    | 2       | 2    | 2/e  | 2       | 2    | 2/e  |                                   |      |        |      |      |
| 309          | 2/e         | 2/e      | 2/e      |                         |             |       |           |             |             |       |                           |      |      |      |         |      | 2/e  |         |      | 2/e  |                                   |      |        |      |      |

## Advice:

The ID's 292 till 297 (Stage May 2004) and ID 298 (stage December 2004) are not supported from the actual TransArc and TransLPe Versions, but they will be implemented to the next releases.

The bC and bPro applications till version 109 don't support the functions and therefore also the commands 299 and higher, because the bC, bPro application were developed based on version 154 of the LPae (LF03 and LF05) application. The commands 299 and higher have been implemented to the LPae in later versions than 154.

## III-B Access Codes for Individual Sales - Codes 4XX

Access Code Usage for: 2 ⇒ TransL2 / a ⇒ TransArc / e ⇒ TransLPe

SC ⇒ Service-Counter, SS ⇒ Self-Service, PP1 ⇒ Pre-Pack-1, PP2 ⇒ Pre-Pack-2, CR ⇒ Cash-Register

| Device-<br>type | bC          |          |          | bPro    | LP/M<br>⇒ 1 Flash-EPROM |       |           |         |             |       |             | LP/M<br>⇒ 2 Flash-EPROM's |      |      |         |        |      |         |        |      |                                   |       |      |        |      |  |
|-----------------|-------------|----------|----------|---------|-------------------------|-------|-----------|---------|-------------|-------|-------------|---------------------------|------|------|---------|--------|------|---------|--------|------|-----------------------------------|-------|------|--------|------|--|
|                 |             |          |          |         | Network                 |       |           |         | Stand Alone |       |             |                           |      |      |         |        |      |         |        |      |                                   |       |      |        |      |  |
|                 | 05          | 03       | 03       |         | 01                      | 02    | 04        | 05      | 60          | 61    | 70          | 05, 25                    |      |      |         | 06, 26 |      |         | 07, 27 |      |                                   | 08,28 |      | 03, 23 |      |  |
| Applications    | SC, SS, PP1 | CR., PP1 | CR., PP1 | SC, PP1 | SC, SS, PP1             | LP-f1 | Info-Line | SC, PP1 | SC, SS, PP1 | LP-f1 | SC, SS, PP1 |                           |      |      | SC, PP1 |        |      | SS, PP1 |        |      | CR without Inventory + Order-Mode |       | CR   |        |      |  |
| ID              | LC05        | LC03     | LR03     | LM01    | LM02                    | LM04  | LK05      | LM60    | LM61        | LM70  | LM05        | LM25                      | LF05 | LE05 | LM06    | LM26   | LE06 | LM07    | LM27   | LE07 | LM08                              | LM28  | LM03 | LM23   | LF03 |  |
| 400             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 401             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 402             |             |          |          |         |                         |       | 2         |         |             |       |             |                           |      |      |         |        |      |         |        |      |                                   |       |      |        |      |  |
| 403             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 404             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 405             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 406             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 407             |             |          |          |         |                         |       | 2         |         |             |       |             |                           |      |      |         |        |      |         |        |      |                                   |       |      |        |      |  |
| 408             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 409             | 2/e         | 2/e      | 2/e      |         | 2/a                     | 2/a   | 2         |         | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 410             |             | 2/e      | 2/e      |         |                         |       | 2         |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 411             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |
| 412             | 2/e         | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2         | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |  |

<sup>1</sup> only TransArc

### III-C Access Codes for Reports - Codes 5XX

Access Code Usage for: 2 ⇒ TransL2 / a ⇒ TransArc / e ⇒ TransLPe

SC ⇒ Service-Counter, SS ⇒ Self-Service, PP1 ⇒ Pre-Pack-1, PP2 ⇒ Pre-Pack-2, CR ⇒ Cash-Register

| Device-type  | bC          |         |         | LP/M<br>⇒ 1 Flash-EPROM |             |       |                |             |             |       | LP/M<br>⇒ 2 Flash-EPROM's |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
|--------------|-------------|---------|---------|-------------------------|-------------|-------|----------------|-------------|-------------|-------|---------------------------|------|------|------|---------|------|------|---------|------|------|-----------------------------------|------|--------|------|------|
|              |             |         |         | Network                 |             |       |                | Stand Alone |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
|              | 05          | 03      | 03      | 01                      | 02          | 04    | 05             | 60          | 61          | 70    | 05, 25                    |      |      |      | 06, 26  |      |      | 07, 27  |      |      | 08, 28                            |      | 03, 23 |      |      |
| Applications | SC, SS, PP1 | CR, PP1 | CR, PP1 | SC, PP1                 | SC, SS, PP1 | LP-f1 | Info-Line      | SC, PP1     | SC, SS, PP1 | LP-f1 | SC, SS, PP1               |      |      |      | SC, PP1 |      |      | SS, PP1 |      |      | CR without Inventory + Order-Mode |      | CR     |      |      |
| ID           | LC05        | LC03    | LR03    | LM01                    | LM02        | LM04  | LK05           | LM60        | LM61        | LM70  | LM05                      | LM25 | LF05 | LE05 | LM06    | LM26 | LE06 | LM07    | LM27 | LE07 | LM08                              | LM28 | LM03   | LM23 | LF03 |
| 500          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 501          |             |         |         |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 502          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 503          |             |         |         |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 504          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 505          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 506          |             |         |         |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 507          |             |         |         |                         |             |       |                |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 508          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 509          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 510          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 511          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 512          | 2/e         | 2/e     | 2/e     | 2/a                     | 2/a         | 2/a   | 2              | 2           | 2           | 2     | 2/a                       | 2/a  | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a     | 2/a  | 2/e  | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 517          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 518          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 519          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 520          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 521          |             |         |         |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 522          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 523          |             | 2/e     | 2/e     |                         |             |       |                |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 524          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 530          |             |         |         |                         |             |       |                |             |             |       |                           |      |      |      |         |      |      |         |      |      |                                   |      |        |      |      |
| 532          |             | 2/e     | 2/e     |                         |             |       | 2 <sup>2</sup> |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 533          |             | 2/e     | 2/e     |                         |             |       | 2 <sup>2</sup> |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |
| 596          | 2           | 2       | 2       |                         |             |       |                |             |             |       | 2                         | 2    | 2    | 2    | 2       | 2    | 2    | 2       | 2    | 2    | 2                                 | 2    | 2      | 2    | 2    |
| 598          | 2           | 2       | 2       |                         |             |       |                |             |             |       | 2                         | 2    | 2    | 2    | 2       | 2    | 2    | 2       | 2    | 2    | 2                                 | 2    | 2      | 2    | 2    |
| 616          |             | 2/e     | 2/e     |                         |             |       | 2              |             |             |       |                           |      |      |      |         |      |      |         |      |      | 2/a                               | 2/a  | 2/a    | 2/a  | 2/a  |

<sup>2</sup> since version 108 of the InfoLine Application (LK05-1-1.108) changes/complementings have been carried out, which haven't been implemented to version 110; therefore this commands can't be used partial or completely



## III-D Access Codes for the TAF Journal - Codes 8XX

Access Code Usage for: 2 ⇒ TransL2 / a ⇒ TransArc / e ⇒ TransLPe

SC ⇒ Service-Counter, SS ⇒ Self-Service, PP1 ⇒ Pre-Pack-1, PP2 ⇒ Pre-Pack-2, CR ⇒ Cash-Register

| Device-<br>type | bC           |          |          | bPro    | LP/M<br>⇒ 1 Flash-EPROM |       |                |         |             |       |             | LP/M<br>⇒ 2 Flash-EPROM's |      |      |         |        |      |         |        |      |                                   |       |      |        |      |
|-----------------|--------------|----------|----------|---------|-------------------------|-------|----------------|---------|-------------|-------|-------------|---------------------------|------|------|---------|--------|------|---------|--------|------|-----------------------------------|-------|------|--------|------|
|                 |              |          |          |         | Network                 |       |                |         | Stand Alone |       |             |                           |      |      |         |        |      |         |        |      |                                   |       |      |        |      |
|                 | Applications | 05       | 03       | 03      | 01                      | 02    | 04             | 05      | 60          | 61    | 70          | 05, 25                    |      |      |         | 06, 26 |      |         | 07, 27 |      |                                   | 08,28 |      | 03, 23 |      |
|                 | SC, SS, PP1  | CR., PP1 | CR., PP1 | SC, PP1 | SC, SS, PP1             | LP-f1 | Info-Line      | SC, PP1 | SC, SS, PP1 | LP-f1 | SC, SS, PP1 |                           |      |      | SC, PP1 |        |      | SS, PP1 |        |      | CR without Inventory + Order-Mode |       | CR   |        |      |
| ID              | LC05         | LC03     | LR03     | LM01    | LM02                    | LM04  | LK05           | LM60    | LM61        | LM70  | LM05        | LM25                      | LF05 | LE05 | LM06    | LM26   | LE06 | LM07    | LM27   | LE07 | LM08                              | LM28  | LM03 | LM23   | LF03 |
| 800             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 801             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 802             |              | 2/e      | 2/e      |         |                         |       | 2              |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 803             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 804             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 805             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 806             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 807             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 808             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 809             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   |                | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 810             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 811             |              |          | 2/e      | 2/e     |                         |       | 2              |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 812             |              |          | 2/e      | 2/e     |                         |       | 2              |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 813             | 2/e          | 2/e      | 2/e      | 2/a     | 2/a                     | 2/a   | 2              | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 816             | 2/e          |          |          | 2/a     | 2/a                     | 2/a   | 2 <sup>2</sup> | 2       | 2           | 2     | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  |                                   |       |      |        |      |
| 817             |              | 2/e      | 2/e      |         |                         |       | 2 <sup>2</sup> |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 818             |              | 2/e      | 2/e      |         |                         |       |                |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 819             |              | 2/e      | 2/e      |         |                         |       |                |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 820             |              | 2/e      | 2/e      |         |                         |       |                |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 821             |              | 2/e      | 2/e      |         |                         |       | 2 <sup>2</sup> |         |             |       |             |                           |      |      |         |        |      |         |        |      | 2/a                               | 2/a   | 2/a  | 2/a    | 2/a  |
| 822             | 2/e          |          |          |         |                         |       | 2 <sup>2</sup> |         |             |       | 2/a         | 2/a                       | 2/a  | 2/e  | 2/a     | 2/a    | 2/e  | 2/a     | 2/a    | 2/e  |                                   |       |      |        |      |

<sup>2</sup> since version 108 of the InfoLine Application (LK05-1-1.108) changes/complementings have been carried out, which haven't been implemented to version 110; therefore this commands can't be used partial or completely

### III-E Context from Access-Codes and Application-Versions

SC ⇒ Service-Counter, SS ⇒ Self-Service, PP1 ⇒ Pre-Pack-1, PP2 ⇒ Pre-Pack-2, CR ⇒ Cash-Register

|     |              |   | bC                                      | bPro            | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-----|--------------|---|---|-----------------|---|--|--|
|     |              |   | LC05 SC,<br>SS, PP1<br>LC03 CR.,<br>PP1 | LR03 CR,<br>PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without<br>Ordering<br>und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| F ⇒ | Fehler       |   |   |                 |   |  |  |
| Ä ⇒ | Änderung     |   |   |                 |   |  |  |
| N ⇒ | Neue Kennung |   |   |                 |   |  |  |
| ID  | kind         | remark  | form<br>version                         | form version    | from version  | from version   | from version   |
| xxx | E            | <ul style="list-style-type: none"> <li>with TransL2 sent data's have been interpreted as hand-scanner data's if the first character was unequal the start-sequence &lt;STX&gt;</li> <li>if a interrupt of the TransL2 data flow happened the serial interface of the scale was not reinitialized – for a reset the scale had to be switched</li> <li>the sending-buffer was not cleared after a cyclic reinitializing</li> <li>first off all this items caused problems in combination with modems</li> </ul> | 100                                     | 100             |   | 115  | 106  |
| xxx | E            | <ul style="list-style-type: none"> <li>if a TransXXX command READ-ALL was sent after the primary-configuration has been changed form network to stand-alone the device answered with the error-message 02E-1 or 02216</li> </ul>  | 100                                     | 100             |   | 124  | 115  |
| xxx | E            | <ul style="list-style-type: none"> <li>in the case of reading data's with TransXXX where the \$-character was sent in the response (for example with direct-texts) a checksum-error occurred</li> </ul>   | 100                                     | 100             |   | 124  | 115  |
| xxx | E            | <ul style="list-style-type: none"> <li>font-size a-k (10 – 20) – when this values have beet sent together with a text via TransXXX to the devices they printed afterwards only blanks</li> </ul>  | 100                                     | 100             |   | 128  | 119  |
| xxx | F            | <ul style="list-style-type: none"> <li>Interface problems with channel A / RS 232 Interface</li> <li>The reason of the problem was that the serial prot was not reinitialized if the TransL2 data flow was interrupted. So the Channel A could only be used after a reboot.</li> <li>Furthermore the sending buffer of the serial prot was not deleted after a cyclic reinitialization. This caused especially to problems with modems.</li> </ul>  | 100                                     | 100             | 135   |  |  |
| xxx | F            | <ul style="list-style-type: none"> <li>ERROR 02e-1, (Syntax Error), with TransL2 communication (Duart Task)</li> <li>If the same command which caused this error message was sent again to the scale Channel A was blocked.</li> </ul>  | 100                                     | 100             | 135   |  |  |
| xxx | F            | <ul style="list-style-type: none"> <li>TransL2 error messages: ERROR 202 / ERROR 206 / STX ERROR - duplication of datas Duart-Task</li> <li>If the checksum of a sent sting was 0 it was tranmitted and because of this the communication stopped. (since version 135) TransL2 error messages: ERROR 202 / ERROR 206 / STX ERROR.</li> <li>After sending a record the timeout to wait for a NAK was adjusted wrong and the result could be duplication of datas.</li> </ul>                                   | 100                                     | 100             | 136   |  |  |
| xxx | F            | <ul style="list-style-type: none"> <li>TransXXX – wrong values in the database after a RS232 data transmission (Duart-Task)</li> <li>Reading an writing of IDs with a closing bitfield at the end didn't fuction correct since version X145/X136. The bitfield was not transformed an so wrong values were written to the database (f.e. scale configuration)</li> </ul>  | 100                                     | 100             |   | 146  | 137  |
| xxx | F            | <ul style="list-style-type: none"> <li>TransXXX – problems with sending IDs from the scale to the PC which are longer than 255 Byte (f.e. label definitions)</li> <li>The error numbers ERROR 202 oder ERROR 216 were indicated</li> </ul>  | 100                                     | 100             | 137   | 146  | 137  |

F ⇒ Fehler  
 Ä ⇒ Änderung  
 N ⇒ Neue Kennung

|     |      |   | bC                                | bPro         | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-----|------|---|-----------------------------------|--------------|---|--|--|
|     |      |   | LC05 SC, SS, PP1<br>LC03 CR., PP1 | LR03 CR, PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without Ordering und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| ID  | kind | remark  | form version                      | form version | from version  | from version   | from version   |
| xxx | Ä    | <ul style="list-style-type: none"> <li>optimizing the TransL2 data transmission ⇒ In the send and receiver part of the Duart Timeouts were corrected and NAK's implemented. So the error tolerance for the Data transmissions improved.</li> <li>Using -TransL2-16-Bit – transmission rate 19200 Baud ⇒ With DOS it's now possible to use 19200 Baud. With Windows NT 9600 Baud are possible. With Windows 98 are still problems also with 9200 Baud. Further operation systems have not been testen with TransL2 16-Bit. If possible use DOS or NT.</li> <li>Using TransL2-32-Bit - transmission rate 19200 Baud ⇒ With Windows-NT and XP its now possible to use 19200 Baud. With Windows 98 are problems also with 19200 Baud Probleme. Further operating systems have not been tested. If possible use NT or XP.</li> </ul> | 100                               | 100          |   | 145  | 136  |
| 2   | N    | Änderung der Primärkonfiguration  | 100                               | 100          |   | 148<br>(all without LM03, 23 LM08, 28)   | 139  |
| 6   | E    | in the case of reading the network-status with TransXXX the EuroPhase at phase 3 was listed as phase 0  | 100                               | 100          |   | 121  | 112  |
| 204 | C    | Expansion for the operator-number with the numbers 102 bis 200 (binary interpretation)  | 100                               | 100          |   | LM06, 26, 07, 27, LF03, 05<br>from version 148   | LE06, 07<br>from version 139                                 |
| 207 | E    | in the cases of writing an deleting articles with multi-department devices a part of the barcode-number was overwritten in the response (department-number was a part of the High-Nibble form the barcode-number)   | 100                               | 100          |   | 121  | 112  |
| 207 | C    | PLU-defined EAN-Code for Labeling is possible   | 100                               | 100          |   | 133  | 124  |
| 207 | C    | Meaning of Bit 6 in the article-flag has been changed to "piece article solid / liquid" (till now the meaning was SO-Plu reset yes/no)  | 100                               | 100          |   | 137  | 128  |
| 207 | Ä    | Meaning of Bit 7 from the article flag changed to Quality-Bitim (before used for reset of spezial-offer PLU - yes/no)   | 100                               | 100          |   | 143  | 134  |
| 208 | C    | new for layout-flags Bit 2 „price per piece“, Bit 3 „input request for number of pieces, fixed weight or filling quantity in PP1-Mode“ and Bit 4 “basic price unit”   | 100                               | 100          |   | 147  | 138  |
| 208 | C    | Added Date-Flag values für pack-date (101 and 110) und for date format  | 103                               | 103          |   | LM06, 26, 07, 27, LF03, 05<br>from version 157   | LE06, 07<br>from version 148                                 |
| 209 | E    | with the possibility to increase the length of the ingredient-text up to 900 characters this access-code didn't work correct  | 100                               | 100          |   | 122  | 113  |
| 209 | E    | the blocknumber hasn't been initialized correct when the ingredient was written with ID 209   | 100                               | 100          | 134   | 132  | 123  |
| 209 | C    | increased the number of ingredient blocks for LP-applications up to 4 blocks (up to 1800 characters)  | ---                               | ---          |   | LM06, 26, 07, 27, LF03, 05<br>from version 155   | LE06, 07<br>from version 146                                 |
| 209 | Ä    | Anzahl der Zutatenblöcke für bC-Applikationen auf bis zu 7 Blöcke erhöht (bis zu 3600 Zeichen)  | 111                               | 111          |   |  |  |
| 214 | N    | new EAN-Code values R, S and T to encode the weight   | 100                               | 100          |   | 133  | 124  |
| 215 | C    | <ul style="list-style-type: none"> <li>increased the number of Tare-Memories to 99</li> <li>Up to now only 16 Tare Memories could be defined. As from this version 99 Tare Memories can be defined. In the Self Service Mode Tare-Number 16 is further used as Primary-Tare (automatical Tare-Value for all PLU's, which is active after switching on the scale).</li> </ul>  | 100                               | 100          |   | 138  | 129  |
| 219 | C    | with LP-2-Flash applications 30 date-texts can be used now; every text can have a length of 100 characters  | 100                               | 100          |   | 137  | 128  |
| 219 | E    | If the ID was used with control „Readall“, the end of the previous text has been added to the following. The error is removed.  | 100                               | 100          |   | 140  | 131  |
| 231 | F    | Payment Methods which have been created in Euro-Phase 2 or 3 was defined in the database like transmitted in Euro-Phase 0. So they have been exoired in Euro-Phase 2 and 3  | 100                               | 100          |   | 133  | 124  |
| 236 | C    | with this versions it's possible to delete sales-reports without deleting the TAF and resetting the ticket-number (sales-type = 2)  | 100                               | 100          |   | 114  | 105  |

F ⇒ Fehler  
 Ä ⇒ Änderung  
 N ⇒ Neue Kennung

|                   |      |   | bC                                | bPro         | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-------------------|------|---|-----------------------------------|--------------|---|--|--|
|                   |      |   | LC05 SC, SS, PP1<br>LC03 CR., PP1 | LR03 CR, PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without<br>Ordering<br>und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| ID                | kind | remark  | form<br>version                   | form version | from version  | from version   | from version   |
| 236               | C    | • Inventory turn over can be deleted per department   | 113                               | 113          |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 157  | LE06, 07<br>from version 148                                 |
| 238               | E    | • in the case of sending date and time the values for day and year haven't been sent with TransXXX and so they could be distort – the access-code was modified in this way, that this device-internal values for day an year can't be modified with a TransXXX-command  | 100                               | 100          |   | 113  | 104  |
| 239               | C    | • Procedure 10 and 11 added / both use a CRC32-Checksum for the TransL2 Data-exchange (avoid missing characters in transmitted commands)  | 100                               | 100          |   | LM05/25/06/26/07/27 and<br>LF03/05 from V150   | 141  |
| 243               | C    | • value-range for label-types was increased from 0-32 to 0-99   | 100                               | 100          | 125   | 106  |  |
| 243               | C    | • new value 4 for standard-label-definition of the INET-Mode / Label-Definition-number 4  | 100                               | 100          |   | LM06,26,07,27 and<br>LF03,05 from V150   | LE06,07 from V141  |
| 243               | C    | • by label definition added number 5d – REWRAP label -<br>• added date flag values for pack-date (101 and 110) and for date format  | 113                               | 113          |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 157  | LE06, 07<br>from version 148                                 |
| 253               | C    | • added the description how to define with the additional article number 12 Labeltext numbers (ID 294) to be printed with a PLU   | 100                               | 100          |   | 143  | 134  |
| 260               | E    | • the label-definitions couldn't be red with TransXXX (because of implemented modifications for hand-scanners)  | 100                               | 100          |   | 108  |  |
| 260               | C    | • Expansion fort he label-type number to the range of 1 to 29   | 100                               | 100          |   | 137  | 128  |
| 261<br>285        | N    | • two new keys „Price-Level 1 / 2“ can be defined<br>• concerns the commands 261 and 285<br>• In the keyboard konfiguration this two key can be configured and placed on the keyboard. Price-Level Key 1 switches to VK1, Price-Level key 2 switches to VK2. After using one of this keys the scale switches permanent to this Price-Level (not only fort he next booking). The setting for the used price-level VK1 or VK2 is listed in the user-configuration. How to use: pressing a Price-Level key, selecting a PLU, booking.<br>• Tho old key for the Second-Price further can be used. | 100                               | 100          |   | 140  | 131  |
| 261<br>285        | N    | • new keys „Till deposit“ and „Till payout“ possible<br>• concerns IDs 261 and 285<br>• It's possible to define and place this 2 new keys in the keyboard configuration to handle the Till deposit and Till payout direct without usind Code 7.   | 100                               | 100          |   | LF03 Version 144   | ---  |
| 261<br>285        | N    | • new key „temporary label “<br>• concerns IDs 261 and 285<br>• this key can be defined and placed in the keyboard configuration<br>• using this key in the server and PP1-Mode you temporary change the used label layout (it is only active until the PLU, the basic price or a manual price is changed)  | 100                               | 100          |   | LM06, 26, 07, 27<br>and LF 03, 05<br>from Version 146  | LE06 from Version<br>137                                     |
| 261<br>285        | C    | • new key for the „INET-Mode“   | 100                               | 100          |   | LM06,26,07,27 and<br>LF03,05 from V150   | LE06,07 from V141  |
| 261<br>285        | C    | • added bC, bPro keyboard types<br>• added the following keys for both commands<br>⇒ Sales mode - key<br>⇒ Rewrap mode - key<br>⇒ Inventory mode - key  | 113                               | 113          |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 157  | LE06, 07<br>from version 148                                 |
| 269               | N    | • MIRA – direct-text number (PLU-assignment)  | 100                               | 100          |   | 120  | 111  |
| 270               | N    | • MIRA – direct-text table  | 100                               | 100          |   | 120  | 111  |
| 270<br>287<br>289 | C    | • Reading Direct-Texts and Shortcodes with TransXXX ID 270 / 287 / 289<br>• By reading Direct-Texts and Shortcodes with TransL2 up to this version the device number is set to 0. With older version the device-number was transfeded, also Direct-Texts an Shortcodes can only be defined per departement but not per device (is to define in the scale-configuration).  | 100                               | 100          |   | 138  |  |
| 277               | N    | • expansion for the user-configuration of MIRA  | 100                               | 100          |   | 115<br>(scale-internal up to 107)  | 106  |

F ⇒ Fehler  
 Ä ⇒ Änderung  
 N ⇒ Neue Kennung

|     |      |  | bC                                | bPro         | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-----|------|--|-----------------------------------|--------------|---|--|--|
|     |      |  | LC05 SC, SS, PP1<br>LC03 CR., PP1 | LR03 CR, PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without Ordering und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| ID  | kind | remark   | form version                      | form version | from version  | from version   | from version   |
| 277 | N    | <ul style="list-style-type: none"> <li>the Training-Mode can be disabled in the User Configuration</li> <li>the timing for the Total in the display after printing a ticket can be defined in the User Configuration</li> </ul>  | 100                               | 100          |   | 133  | 124  |
| 277 | C    | <ul style="list-style-type: none"> <li>added Configuration „VAT per booking“</li> </ul>  | 100                               | 100          |   | 140  | 131  |
| 277 | C    | <ul style="list-style-type: none"> <li>added in table "User config. status 2 "<br/>Bit 4 ⇒ percentage PLU-Tare</li> </ul>  | 100                               | 100          |   | LM06/26/07/27 and LF03/05 from V149  | Le06/07 from V140  |
| 277 | C    | <ul style="list-style-type: none"> <li>added in table "User config. status 2 "<br/>Bit 5 ⇒ basic price per hand +/- per departement</li> </ul>   | 100                               | 100          |   | LM06/26 and LF/05 from V149  | Le06 from V140   |
| 277 | C    | <ul style="list-style-type: none"> <li>added in table "User config. status 2 "<br/>Bit 6 ⇒ Header-Text on turnover reports</li> </ul>  | 100                               | 100          |   | LM06/26/07/27 and LF03/05 from V149  | Le06/07 from V140  |
| 277 | Ä    | <ul style="list-style-type: none"> <li>added following item<br/>⇒ Error timer OPEN Cash Drawer</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27, LF03, 05 from version 144  | LE06, 07 from version 135                                    |
| 277 | Ä    | <ul style="list-style-type: none"> <li>added following item<br/>⇒ added percentage tare value von – to</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27, LF03, 05 from version 149  | LE06, 07 from version 140                                    |
| 278 | N    | <ul style="list-style-type: none"> <li>order data</li> </ul>   | 100                               | 100          |   | 107  |  |
| 279 | N    | <ul style="list-style-type: none"> <li>expansion for the scale-configuration of MIRA</li> </ul>  | 100                               | 100          |   | 115<br>(scale internal up to 107)  | 106  |
| 279 | C    | <ul style="list-style-type: none"> <li>the number of PLUs with ingredients can be defined now</li> <li>Logo-Prining on the ticket can be en-/disabled now</li> </ul>   | 100                               | 100          |   | 135  | 126  |
| 279 | C    | <ul style="list-style-type: none"> <li>Direct-Texts and Shortcodes can be defined now per departement</li> </ul>   | 100                               | 100          |   | 137  | 128  |
| 279 | C    | <ul style="list-style-type: none"> <li>Scale Configuration Flag 3 – new values<br/>Bit 3 ⇒ with Scanner<br/>Bit 4 ⇒ with Shortcode long (comp. code 296)</li> </ul>  | 100                               | 100          |   | LM05, 25, 06, 26, 07, 27 and LF 03, 05 from Vers. 148  | LE06, 07 from Vers. 139                                      |
| 279 | C    | <ul style="list-style-type: none"> <li>Scale configuration Falg 3 – new values<br/>Bit 5 ⇒ with INET-Mode<br/>Bit 4 ⇒ with INET-Mode turnover</li> </ul>   | 100                               | 100          |   | LM06/26/07/27 and LF03/05 from V150  | Le06/07 from V141  |
| 279 | C    | <ul style="list-style-type: none"> <li>scale configuration expansion 1 – new values<br/>⇒ Flag 3 Bit 7 ⇒ range for special short code numbers<br/>⇒ text length for ingredients till 1800<br/>⇒ number of direct text till 230<br/>⇒ number of short codes till 230</li> </ul> | 114                               | 114          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 279 | Ä    | <ul style="list-style-type: none"> <li>scale configuration expansion 1 – new values<br/>⇒ text length for ingredients till 3600</li> </ul>   | 111                               | 111          |   |  |  |
| 280 | N    | <ul style="list-style-type: none"> <li>delivery note customer data</li> </ul>  | 100                               | 100          |   | 110  |  |
| 285 | N    | <ul style="list-style-type: none"> <li>the Fix-Key can be turned on/off now in the keyboard-configuration</li> </ul>   | 100                               | 100          |   | 133  | 124  |
| 287 | N    | <ul style="list-style-type: none"> <li>shortcode data</li> </ul>   | 100                               | 100          |   | 126  | 117  |
| 287 | C    | <ul style="list-style-type: none"> <li>increased the range for short code numbers to 230</li> </ul>  | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 288 | N    | <ul style="list-style-type: none"> <li>shortcode assignment to PLU</li> </ul>  | 100                               | 100          |   | 126  | 117  |
| 288 | C    | <ul style="list-style-type: none"> <li>new Shortcode-number 106 „feet 20 characters text or number for the Shortcode“</li> <li>new table for Article-Flag – PLU-Tare settings per Selling-Mode</li> </ul>  | 100                               | 100          |   | LM06/26/07/27 and LF03/05 from V150  | Le06/07 from V141  |
| 288 | C    | <ul style="list-style-type: none"> <li>increased the range for short code numbers to 230</li> </ul>  | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 289 | N    | <ul style="list-style-type: none"> <li>shortcode sales datas</li> </ul>  | 100                               | 100          |   | 126  | 117  |
| 289 | C    | <ul style="list-style-type: none"> <li>increased the range for short code numbers to 230</li> </ul>  | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 290 | C    | <ul style="list-style-type: none"> <li>new value for „number of operators“</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27, 09 and LF 03, 05 from Vers. 148  | LE06, 07 from Vers. 139                                      |

F ⇒ Fehler  
 Ä ⇒ Änderung  
 N ⇒ Neue Kennung

|     |      |   | bC                                | bPro         | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-----|------|---|-----------------------------------|--------------|---|--|--|
|     |      |   | LC05 SC, SS, PP1<br>LC03 CR., PP1 | LR03 CR, PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without Ordering und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| ID  | kind | remark  | form version                      | form version | from version  | from version   | from version   |
| 292 | N    | <ul style="list-style-type: none"> <li>Additional for Standard Label-Printparameters (SC, SS, Total, PP1)</li> <li>Values for Line spacing, Font size, Label Separation and Separation tolerance (only for LP Appl 06, 26, 07, 27, 08, 28, LF03 and L2 03, 33)</li> </ul> | 100                               | 100          |   | 141  | 141  |
| 292 | C    | <ul style="list-style-type: none"> <li>new value 4 – standard label-definition for the INET-Mode</li> </ul>   | 100                               | 100          |   | LM06/26/07/27 and LF03/05 from V150  | Le06/07 from V141  |
| 293 | N    | <ul style="list-style-type: none"> <li>Addition Label-Types (LP/M) – print Directtexts / Labeltexts</li> <li>defining the printinposition for 30 Label-texts in the label layout</li> </ul>   | 100                               | 100          |   | 143  | 134  |
| 294 | N    | <ul style="list-style-type: none"> <li>create additional label-texts (LP/M)</li> <li>with this ID can be created 12 label texts with 40 characters per text</li> </ul>  | 100                               | 100          |   | 143  | 134  |
| 295 | N    | <ul style="list-style-type: none"> <li>Addition Label-Types (LP/M) – define the position of 10 Logo-extracts</li> </ul>   | 100                               | 100          |   | 143  | 134  |
| 296 | N    | <ul style="list-style-type: none"> <li>new ID for „Shortcode-Text long“ to read the matching Shortcode-Number with an barcode scanner</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27 and LF 03, 05 from Vers. 148  | LE06, 07 from Vers. 139                                      |
| 296 | C    | <ul style="list-style-type: none"> <li>increased the range for short code numbers to 230</li> </ul>   | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 297 | N    | <ul style="list-style-type: none"> <li>new ID for „Info PLU-File“</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27, 09 and LF 03, 05 from Vers. 148  | LE06, 07 from Vers. 139                                      |
| 298 | N    | <ul style="list-style-type: none"> <li>Allocating Direct Texts to PLUs (like ID 269, addtionla line 101 – feed text manuell – and 102 – no text allowed)</li> </ul>   | 100                               | 100          |   |  |  |
| 299 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>expansion for the staggered block price – additional staggered block prices 3, 4 and 5</li> </ul>   | 112                               | 112          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 300 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>assignment direct text number, short code number, staggered block price 3, 4, 5 and PLU</li> </ul>  | 114                               | 114          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 301 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>direct text table (per line) till direct text number 229</li> </ul>   | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 302 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>short code data with direct text 0 – 229</li> <li>can replace command 287</li> </ul>  | 114                               | ---          |   | LM06, 26, 07, 27, LF03, 05 from version 155  | LE06, 07 from version 146                                    |
| 305 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>request in which mode the scale currently is</li> </ul>   | 112                               | 112          |   | LM06, 26, 07, 27, LF03, 05 from version 157  | LE06, 07 from version 148                                    |
| 306 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>masking for code menue 789</li> <li>is a configurable extract from code menue 1 – data maintainance</li> </ul>  | 112                               | 112          |   | LM06, 26, 07, 27, LF03, 05 from version 158  | LE06, 07 from version 148                                    |
| 309 | N    | <ul style="list-style-type: none"> <li>new command</li> <li>Event Engine Format</li> </ul>  | 111                               | 111          |   |  | LE06, 07 from Version xxx                                    |
| 4xx | E    | <ul style="list-style-type: none"> <li>individual saves were sometimes listed with the value zero</li> </ul>  | 100                               | 100          | 107   |  |  |
| 4xx | E    | <ul style="list-style-type: none"> <li>for individual sales of a not existing devices the PC received a not defined turnover</li> </ul>   | 100                               | 100          | 119   | 102  |  |
| 404 | C    | <ul style="list-style-type: none"> <li>added range for operator number 102 till 200</li> </ul>  | 100                               | 100          |   | LM06, 26, 07, 27, LF03, 05 from version 154  | LE06, 07 from version 145                                    |
| 408 | E    | <ul style="list-style-type: none"> <li>in the response was a part of the barcode-number overwritten in case of reading article-sales from multi-department devices (department-number was included in the high-nibble of the barcode-number)</li> </ul>                   | 100                               | 100          |   | 126  | 117  |
| 505 | E    | <ul style="list-style-type: none"> <li>sales report interrupted if the department form which the sales reports are asked didn't exist in the network</li> </ul>   | 100                               | 100          | 505   | 127  | 118  |
| 508 | E    | <ul style="list-style-type: none"> <li>at the special-offer report the field "margin" wasn't defined – now it's set to zero</li> </ul>  | 100                               | 100          | 117   | 100  |  |
| 512 | E    | <ul style="list-style-type: none"> <li>payment-methods were listed wrong in the TAF (Trans-Action-File)</li> </ul>  | 100                               | 100          |   |  |  |
| 512 | E    | <ul style="list-style-type: none"> <li>wrong records in conjunction with ticket-repetition are removed</li> </ul>   | 100                               | 100          | 107   |  |  |
| 512 | E    | <ul style="list-style-type: none"> <li>value for "abbreviation" was not initialized an could hang-upTransL2 (if accidental the content of the field was STX)</li> </ul>   | 100                               | 100          |   | 114  | 105  |

F ⇒ Fehler  
 Ä ⇒ Änderung  
 N ⇒ Neue Kennung

|     |      |   | bC                                      | bPro            | LP/M<br>⇒ 1 Flash-<br>EPROM   | LP/M<br>⇒ 2 Flash-EPROM's  |  |
|-----|------|---|---|-----------------|---|--|--|
|     |      |   | LC05 SC,<br>SS, PP1<br>LC03 CR.,<br>PP1 | LR03 CR,<br>PP1 | ArcNet Classic<br>LM01 SC, PP1<br>LM 02 SC, SS, PP1<br>LM 04 LP-f1<br>LM 60 SC, PP1<br>LM 61 SC, SS, PP1<br>LM 70 LP-f1 | ArcNet Classic<br>LM 05, 25 SC, SS, PP1<br>LM 06, 26 SC, PP1<br>LM 07, 27 SS, PP1<br>LM 08, 28 CR without<br>Ordering<br>und Inventory<br>LM 03, 23 CR, PP1<br>ArcNet AE<br>LF05 SC, SS, PP1<br>LF03, 23 CR, PP1 | Ethernet<br>LE05 SC, SS, PP1<br>LE06 SC, PP1<br>LE07 SS, PP1 |
| ID  | kind | remark  | form<br>version                         | form version    | from version  | from version   | from version   |
| 512 | C    | • added range for short code number till 230                                    | 114                                     | ---             |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 155  | LE06, 07<br>from version146                                  |
| 532 | N    | • full list of orders   | 100                                     | 100             |   | 107  |  |
| 533 | N    | • delivery note data  | 100                                     | 100             |   | 110  |  |
| 533 | C    | • added range for short code number till 230                                    | 114                                     | ---             |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 155  | LE06, 07<br>from version146                                  |
| 596 | N    | • like access-code 252 but the current device-date is set for the deleting-date | 100                                     | 100             |   | 121  | 112  |
| 598 | N    | • like access-code 236 but the current device-date is set for the deleting-date | 100                                     | 100             | 127   | 121  | 112  |
| 598 | Ä    | • inventory turn over can be deleted per department                             | 114                                     | ---             |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 155  | LE06, 07<br>from version146                                  |
| 817 | N    | • delivery note bookings  | 100                                     | 100             |   | 110  |  |
| 817 | C    | • new Selection Control value 5 - delete individual closed delivery notes       | 100                                     | 100             |   | 137  | 128  |
| 822 | N    | • TAF-entries for shortcode   | 100                                     | 100             |   | 126  | 117  |
| 822 | Ä    | • added range for short code number till 230                                    | 114                                     | ---             |   | LM06, 26, 07, 27,<br>LF03, 05<br>from version 155  | LE06, 07<br>from version146                                  |



## LP-InfoLine ⇨ Application LK05

E ⇨ Error  
 C ⇨ Change  
 N ⇨ New access-code

|     |      |   | LP-Infoline / LK05<br>⇨ 1 Flash-EPROM |
|-----|------|---|---------------------------------------|
| ID  | kind | remark  | from version                          |
| 2xx | N/C  | • all 200-Commands form Mira and L2 are realized form this version.   | 110                                   |
| 512 | C    | • Journal long, command 512 is realized with all Record-typer (1 to 13 and 255).  | 110                                   |
| XXX |      | • LSV1 protocol (Famila) realized   | 110                                   |
| xxx | C    | • TransXXX - RS232 transmission speed 38400 Baud possible   | 111                                   |
| 2xx | N    | • this commands are realized now<br>⇨ 294 create additional label texts for LP/M<br>⇨ 295 add on for label types LP/M, position 10 Logo segments per label layout<br>⇨ 296 short code enhancement scanner | 111                                   |
| xxx | N    | • TransXXX-procedure 9: compatibility mode for Lutrana – procedure 9 - realised   | 112                                   |
| xxx | N    | • TransXXX-procedure 10 and 11 (with CRC32 Checksum calculation)  | 112                                   |
| xxx | N    | • maintenance for delivery note data via InfoLine realised.   | 112                                   |
| 2xx | N    | • this commands are realised now:<br>⇨ 242: label gap<br>⇨ 276: payment methods<br>⇨ 297: Info PLU file   | 112                                   |
| 204 | A    | • operator register<br>⇨ operator numbers till 200 can be sent via Infoline<br>⇨ the "Inet operator" (operator 102) can be sent via InfoLine  | 112                                   |



## III-F Context from Access-Codes and TransXXX-Versions

### TransL2 16 Bit ⇒ LK00 and TransL2 32 Bit ⇒ LK15

In case of data-exchange with the serial-port of the scale (channel A) with the TransL2-programms (16 und 32 Bit-Version), the commands are not processed from TransL2, but form a special task of the scale-application (compare table from chapter III-E). So it depends only from the application of this scale which is connected to the PC if a TransL2-command is supported or not (direct with a zero-modem-cable or over a modem).

Since the 12th of december 2003 exists **Version 128 of TransL2** (before version 124 from the 21<sup>st</sup> of October 1997). In this version changes the ACK-NAK examination of TransL2. With the old version faulty breaks could happen, because the PC (respectively TransL2) didn't respond to a NAK sent of the scale. The consequence was Error 02206.

Since the 30th of september 2004 exists **Version 130 of TransL2**. With this version is it possible to activate the **CRC32-Checksum** with the **Start-parameter X1**. Missing pairs of numbers in command-lines (which have not been recognized with the up to now used XOR Checksum) are recognized with this checksum. CRC32 can only be used if Channel A of the scale is configured with Procedure 10 (analog Procedure 0) or Procedure 11 (analog Procedure 9 –MT-F LUTRANA). By using parameter X0 the communication works with the up to now used checksum XOR (Prozedur 0 respectively 9 for channel A of the scale).

Since the 30th of September exists **TransL2 die version 131**. Version 130 worked only if a logfile already exists

|            | TransL2 32 Bit<br>⇒ LK15 | N ⇒ new / E ⇒ Error/ C ⇒ Changed |   |  |  |  |
|------------|--------------------------|----------------------------------|---|--|--|--|
| date       | version                  | kind                             | remark  |  |  |  |
| 01.12.2000 | 1.30                     | E                                | • if there was the ETX-Character before a Zero-Character, the response-string wasn't transmitted complete |  |  |  |
| 27.02.2002 | 1.31                     | C                                | • Flush-Function was changed because of problems with the ISDN-communication                              |  |  |  |
| 31.10.2002 | 1.32                     | C                                | • correction of the BCC-building  |  |  |  |
|            |                          | N                                | • Windows XP Support is integrated now  |  |  |  |
|            |                          | N                                | • CRC32 check sum implemented for procedure 10 and 11   |  |  |  |
|            |                          | C                                | • from this version the library V24B32.dll is no longer needed  |  |  |  |
| 03.03.2005 | 1.33                     | C                                | • the configuration file Setup.exe has been replaced from this version with the file TransL2Config.exe    |  |  |  |
|            |                          | C                                | • Licensing was deactivated   |  |  |  |
| 22.06.2005 | 1.34                     | C                                | • Process affinity is supported now. That's a precondition to can be used with Dual Core CPU's.           |  |  |  |
| 15.12.2006 | 1.35                     |                                  |   |  |  |  |

**With the TransXXX-programms TransArc and TransLPe are the commands processed from this communication-software and sent direct to every single device. So every access-code has to be handled from the source-code of the communication-software.**

|            | TransArc 16 Bit<br>⇒ LK06 | TransArc 32 Bit<br>⇒ LK12 | TransArc PCI<br>⇒ LL24 |     | N ⇒ new / E ⇒ Error/ C ⇒ Changed |   |
|------------|---------------------------|---------------------------|------------------------|-----|----------------------------------|---|
| date       | version                   | version                   | version                | ID  | kind                             | remark  |
| 30.11.2000 | 1.21                      | 1.02                      | -----                  | 269 | N                                | • direct-text number                                      |
|            |                           |                           |                        | 270 | N                                | • direct text table                                       |
|            |                           |                           |                        | 271 | N                                | • Accounts (Account Number) (App27)                       |
|            |                           |                           |                        | 272 | N                                | • Accounts - Sales Levels (App27)                         |
|            |                           |                           |                        | 273 | N                                | • Deleting Sales Data in an Account (App27)               |
|            |                           |                           |                        | 274 | N                                | • Euro-configuration                                      |
|            |                           |                           |                        | 275 | N                                | • load printer logo for the ticket (MIRA)                 |
|            |                           |                           |                        | 276 | N                                | • Payment Methods – EU Currencies                         |
|            |                           |                           |                        | 277 | N                                | • User Configuration – MIRA Specific                      |
|            |                           |                           |                        | 278 | N                                | • Order-Data  |
|            |                           |                           |                        | 279 | N                                | • Scale Configuration – MIRA Specific                     |
|            |                           |                           |                        | 280 | N                                | • Delivery Note Customer Data                             |
|            |                           |                           |                        | 283 | N                                | • Configuration of E-Cash Card Reader                     |
|            |                           |                           |                        | 807 | N                                | • Price Changes in the TAF                                |
|            |                           |                           |                        | 808 | N                                | • Operator Timekeeping                                    |
|            |                           |                           |                        | 810 | N                                | • List Free Space in TAF Memory                           |
|            |                           |                           |                        | 817 | N                                | • Delivery Note Bookings - MIRA Cash Register             |
| 20.12.2001 | 1.22                      | 1.03                      | 1.01                   | 285 | N                                | • Keyboard configuration LP (additional direct-text-keys) |
|            |                           |                           |                        | 287 | N                                | • Shortcode Data  |
|            |                           |                           |                        | 288 | N                                | • Shortcode Assignment for a PLU                          |
|            |                           |                           |                        | 289 | N                                | • Shortcode sales datas                                   |
|            |                           |                           |                        | 201 | C                                | • number-range for PLU increased to max. 9999             |

|            | TransArc 16 Bit<br>⇒ LK06 | TransArc 32 Bit<br>⇒ LK12 | TransArc PCI<br>⇒ LL24 |     | N ⇒ new / E ⇒ Error/ C ⇒ Changed |  |
|------------|---------------------------|---------------------------|------------------------|-----|----------------------------------|--|
| date       | version                   | version                   | version                | ID  | kind                             | remark   |
|            |                           |                           |                        | 261 | C                                | • new Flag "Shortcode key"   |
|            |                           |                           |                        | 277 | C                                | • new Flag-values: suppress receipt printing, booking with price 0, booking with open cash-draw, printing on LINERLESS-Paper, Standard or Optimized receipt, print direct texts on the receipt, operator configuration (status 2), ... |
|            |                           |                           |                        | 279 | C                                | • number of customers increase to max. 200, number of shortcodes increased   |
|            |                           |                           |                        | 280 | C                                | • new Flag "list closed delivery notes in the cash register sales report"  |
|            |                           |                           |                        | 512 | C                                | • new Record-Type 11 (Electronic Cash).<br>• new Record-Type 12 (Shortcode).   |
| 27.02.2002 | 1.23                      | 1.04                      | 1.02                   | --- | N                                | • the listed additional scale-applications (Code-Splitting) are supported with this release: LL33-x-... / LM07-x-... / LE07-x-... / LM08-x-... / LM27-x-... / LM28-x-...   |
| 31.10.2002 | 1.24                      | 1.05                      | 1.03                   | 202 | C                                | • range of values for the field „Printout“ has been extended<br>• new field User-conf. 2 – Flag for „ticket re-opening“  |
|            |                           |                           |                        | 215 | C                                | • range of values for the field „Tara-No.“ has been increased to 99  |
|            |                           |                           |                        | 219 | C                                | • Textlength for date-text has been increased to 100 characters<br>• the length is variable because of compatibility   |
|            |                           |                           |                        | 270 |                                  | • Table for Directtext – distribution per department is possible now   |
|            |                           |                           |                        | 279 | C                                | • new fields 'number of Shortcodes' and 'number of PLUs with ingredients' added  |
|            |                           |                           |                        | 285 | C                                | • new Flag 'Key F' added   |
|            |                           |                           |                        | 287 | C                                | • Shortcode-Datas - distribution per department is possible now  |
|            |                           |                           |                        | 289 | C                                | • Shortcode turn-overs- distribution per department is possible now  |
|            |                           |                           |                        | 290 | N                                | • new command for scale configuration expansion 2  |
|            |                           |                           |                        | 291 | N                                | • new command to transmit a Bitmap-Logo for labels   |
| 07.08.2003 | 1.25                      | 1.06                      | 1.04                   | 292 | N                                | • new command – Additional for Standard Label-Parameters (SC, SS, Total, PP1)  |
|            |                           |                           |                        | 293 | N                                | • new command – Addition Label-Types (LP/M) – printing direct-texts / label-texts  |
|            |                           |                           |                        | 294 | N                                | • new command – create additional label-texts (LP/M)   |
|            |                           |                           |                        | 295 | N                                | • new command – Addition Label-Types (LP/M) – define the position of 10 Logo extracts  |
|            |                           |                           |                        | 512 | C                                | • Record-Typ 13 added - value after tax per booking  |
|            |                           |                           |                        | 533 | C                                | • Record-Typ 13 added - value after tax per booking  |

|            | TransLPe ⇒ LK16 |     | N ⇒ new / E ⇒ Error/ C ⇒ Changed |  |
|------------|-----------------|-----|----------------------------------|--|
| Datum      | Version         | ID  | Art                              | Bemerkung  |
| 09.08.1999 | 1.01            | --- | C                                | <ul style="list-style-type: none"> <li>• data-transmission rate increased by sending datas parallel to several devices</li> <li>• giving free processor-time for other processes</li> <li>• optimizing the handling of timeout-errors</li> <li>• timeout to receive responses can be configured with „SETUP.EXE“ or direct in the file „TRETHNET.CFN“ as value „-R...“ in the range from 10 – 55 seconds</li> <li>• timeout to send commands can be configured with „SETUP.EXE“ or direct in the file „TRETHNET.CFN“ as value „-S...“ in the range from 1 - 10 seconds (because of Radio-LAN).</li> <li>• Debug-Messages in a Debug-Window realized ⇒ can be activated with the setting for 'Error Logfile'</li> </ul> |
| 30.11.2000 | 1.02            | 242 | N                                | • Label Separation and Separation Tolerance  |
|            |                 | 269 | N                                | • direct-text number   |
|            |                 | 270 | N                                | • direct text table  |
|            |                 | 274 | N                                | • Euro-configuration   |
|            |                 | 275 | N                                | • load printer logo for the ticket (MIRA)  |
|            |                 | 276 | N                                | • Payment Methods – EU Currencies  |
|            |                 | 277 | N                                | • User Configuration – MIRA Specific   |
|            |                 | 278 | N                                | • Order-Data   |
|            |                 | 279 | N                                | • Scale Configuration – MIRA Specific  |
|            |                 | 280 | N                                | • Delivery Note Customer Data  |
|            |                 | 283 | N                                | • Configuration of E-Cash Card Reader  |
|            |                 | 807 | N                                | • Price Changes in the TAF   |
|            |                 | 808 | N                                | • Operator Timekeeping   |
| 20.12.2001 | 1.03            | 810 | N                                | • List Free Space in TAF Memory  |
|            |                 | 817 | N                                | • Delivery Note Bookings - MIRA Cash Register  |
|            |                 | 285 | N                                | • Keyboard configuration LP (additional direct-text-keys)  |
|            |                 | 287 | N                                | • Shortcode Data   |

|            | TransLPe ⇒ LK16 |     | N ⇒ new / E ⇒ Error/ C ⇒ Changed |  |
|------------|-----------------|-----|----------------------------------|--|
| Datum      | Version         | ID  | Art                              | Bemerkung  |
|            |                 | 288 | N                                | • Shortcode Assignment for a PLU   |
|            |                 | 289 | N                                | • Shortcode sales datas  |
|            |                 | 201 | C                                | • number-range for PLU increased to max. 9999  |
|            |                 | 261 | C                                | • new Flag "Shortcode key"   |
|            |                 | 277 | C                                | • new Flags: suppress receipt printing, booking with price 0, booking with open cash-draw, printing on LINERLESS-Paper, Standard or Optimized receipt, print direct texts on the receipt, operator configuration (status 2), ...   |
|            |                 | 279 | C                                | • number of customers increase to max. 200, number of shortcodes increased   |
|            |                 | 280 | C                                | • new Flag "list closed delivery notes in the cash register sales report"  |
|            |                 | 512 | C                                | • new Record-Type 11 (Electronic Cash).<br>• new Record-Type 12 (Shortcode).   |
| 27.02.2002 | 1.04            | --- | N                                | • the listed additional scale-applications (Code-Splitting) are supported with this release:<br>LL33-x-... / LM07-x-... / LE07-x-... / LM08-x-... / LM27-x-... / LM28-x-...  |
|            |                 | --- | C                                | • Handling if a device doesn't response to the TCP/IP-Synchronisation form TransLPe was changed as follows:<br>⇒ CLOSE isn't sent to all devices every time when TransLPe is started<br>⇒ CLOSE is only sent in an error-case (device doesn't synchronize) individual to this device (UDP-Frame)<br>⇒ about 20 seconds after CLOSE was sent, TransLPe tries again to synchronize this device<br>⇒ <b>during this 20 seconds data are sent to all other devices but not to this device (marked in the Response-File – for example with (2115) at the end of every line) that this error-handling works correct from TransLPe-version 1.04 in all devices of the scale-network at least version 120 from the applikationssoftware LE05 has to be installed in all scales (reacts to a CLOSE-UDP-Frame with initializing the TCP/IP-stack) also from version 119 of the LE05 applikationssoftware at least TransLPe-Version 1.04 oder later has to be used – if not there can be Timeout-messages at the scales every time when TransLPe is started</b> |
| 31.10.2002 | 1.05            | --- | C                                | • if no device sends a response to the TCP/IP-Synchronisation (no Netmap found), the upper discribed UDP-frame for „CLOSE“ is sent to all IP-numbers of the TransLPe IP-Range  |
|            |                 | 202 | C                                | • range of values for the field „Printout“ has been extended<br>• new field User-conf. 2 – Flag for „ticket re-opening“  |
|            |                 | 215 | C                                | • range of values for the filed „Tara-No.“ has been increased to 99  |
|            |                 | 219 | C                                | • Textlength for date-text has been increased to 100 characters<br>• the length is variable because of compatibility   |
|            |                 | 270 |                                  | • Table for Directtext – dirtribution per departement is possible now  |
|            |                 | 279 | C                                | • new fields 'number of Shortcodes' and 'number of PLUs with ingredients' added  |
|            |                 | 285 | C                                | • new Flag 'Key F' added   |
|            |                 | 287 | C                                | • Shortcode-Datas - dirtribution per departement is possible now   |
|            |                 | 289 | C                                | • Shortcode turn-overs- dirtribution per departement is possible now   |
|            |                 | 290 | N                                | • new command for scale configuration expansion 2  |
|            |                 | 291 | N                                | • new command to transmit a Bitmap-Logo for labels   |
| 07.08.2003 | 1.06            | 292 | N                                | • new command – Additional for Standard Label-Parameters (SC, SS, Total, PP1)  |
|            |                 | 293 | N                                | • new command – Addition Label-Types (LP/M) – printing direct-texts / label-texts  |
|            |                 | 294 | N                                | • new command – create additional label-texts (LP/M)   |
|            |                 | 295 | N                                | • new command – Addition Label-Types (LP/M) – define the position of 10 Logo extracts  |
|            |                 | 512 | C                                | • Record-Typ 13 added - value after tax per booking  |
|            |                 | 533 | C                                | • Record-Typ 13 added - value after tax per booking  |
| 22.06.2005 | 1.07            | --- | C                                | • licensing was deactivated  |
| 15.12.2006 | 1.09            | --- | N                                | • implemented new commands<br>⇒ 299, 300, 301, 302, 305, 306, 596, 598   |
|            |                 | --- | C                                | • for some commands the value ranges of different fields are adjusted to the scale application   |
|            |                 | --- | C                                | • implemented new device types bC and bPro   |
|            |                 | 275 | E                                | • command 275 modified – before the ticket logo was stored wrong to the scale database   |



## IV Access Code Functional Groups

### IV-A Configuring and Checking a Scale Network

#### Access Code: 2

#### Function: changing the Primary-Configuration (only for network scales)

Till now this function could be used only in the service-mode of the scales (Service-Mode / Step 8). Using this command changes the Networkmap of network scales and sends it to the other devices.

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2    | 2    | 2    |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |      |      |      |      | 2    |

#### Command

|   |        |                       |  |      |
|---|--------|-----------------------|--|------|
| N | 1      | CMD                   | 0d   | ( 1) |
| N | 5      | Access Code           | 2d   | ( 5) |
| F | 4      | Control               | Access (write only)  | ( 4) |
|   |        |                       | <i>0d = make a primary configuration</i>                   |      |
| N | 4      | Departement           | 0d   | ( 4) |
| N | 2      | Scale Number.         | 1 - 64d (only existing scale numbers are allowed)          | ( 2) |
| N | 2      | Node ID               | 1 - 64d (same value as Scale number)                       | ( 2) |
| N | 2      | Number of Departments | 1 - 16d  | ( 2) |
| N | 4 [16] | Department Numbers    | 1 - 9999d  | (64) |
| N | 1      | Network Type          | 1 - 2d   | ( 1) |
|   |        |                       | <i>1 = network</i>   |      |
|   |        |                       | <i>2 = roving operator</i>                                 |      |
| N | 2      | Roving Operator group | 0 - 16d  | ( 2) |
|   |        |                       | <i>0d = no Roving Operator group (only Network-Type 1)</i> |      |
|   |        |                       | -----  | (87) |

#### Response

|   |        |                                  |  |      |
|---|--------|----------------------------------|--|------|
| N | 1      | CMD                              | 0d   | ( 1) |
| N | 5      | Access Code                      | 2d   | ( 5) |
| F | 4      | Control                          | Status   | ( 4) |
|   |        | <b>Response</b>                  | <b>Meaning</b>                                       |      |
|   |        | 0                                | OK   |      |
|   |        | 1                                | Function not executable                              |      |
|   |        | 3                                | to many departments >16)                             |      |
|   |        | 5                                | roving group not possible                            |      |
|   |        | 6                                | unequal device circle                                |      |
| N | 4      | department                       | 0  | ( 4) |
| N | 2      | Scale number                     | 1 - 64d,   | ( 2) |
| N | 2      | Node ID                          | 1 - 64d (same value as Scale number)                 | ( 2) |
| N | 2      | Number of Departments            | 1 - 16d  | ( 2) |
| N | 4 [16] | Department numbers               | 1 - 9999d  | (64) |
| N | 1      | Network Type                     | 1 - 2d   | ( 1) |
|   |        |                                  | <i>1 = network</i>                                   |      |
|   |        |                                  | <i>2 = roving operator</i>                           |      |
| N | 2      | Roving Operator group            | 0 - 16d  | ( 2) |
|   |        |                                  | <i>0d = without roving operator</i>                  |      |
| N | 2      | Scale Circuit                    | 0 - 99d  | ( 2) |
|   |        |                                  | <i>0 = L2 in pure L2 network</i>                     |      |
|   |        |                                  | <i>1 = L2 in mixed network with MIRA or Infoline</i> |      |
|   |        |                                  | <i>4 = MIRA only</i>                                 |      |
|   |        |                                  | <i>9 = Infoline only</i>                             |      |
| C | 11     | Program Number                   | Applikation  | (11) |
| N | 1      | Scale Type                       | see table of ID 200                                  | ( 1) |
| N | 2      | Number of devices in the network | 1 - 64d  | ( 2) |

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(103)

## Access Code: 5

### Function: Request Network Status

This function returns the current status of the network and the status of devices and scales in a department (based on the Network Map).

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |              |   |      |
|---|---|--------------|---|------|
| N | 1 | CMD          | 0d  | ( 1) |
| N | 5 | Access Code  | 5d  | ( 5) |
| F | 4 | Control      | Access  | ( 4) |
|   |   |              | <i>for a pure L2-Network</i>                                    |      |
|   |   |              | <i>0d = Scale circuit 0</i>                                     |      |
|   |   |              | <i>for a mixed scale circuit</i>                                |      |
|   |   |              | <i>0d = all scale circuits</i>                                  |      |
|   |   |              | <i>0 - 9d = individual Scale Circuit, (see Access Code 200)</i> |      |
| N | 4 | Department   | 1 - 9999d,  | ( 4) |
|   |   |              | <i>0d = entire network</i>                                      |      |
| N | 2 | Scale Number | 1 - 64d,  | ( 2) |
|   |   |              | <i>0d = all scales in the department.</i>                       |      |

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(16)

#### Response

|   |   |             |        |      |
|---|---|-------------|--------|------|
| N | 1 | RSP         | 1,3d   | ( 1) |
| N | 5 | Access Code | 5d     | ( 5) |
| F | 4 | Control     | Status | ( 4) |

| Response | Meaning                 |
|----------|-------------------------|
| 0        | OK                      |
| 1        | Network inactive        |
| 2        | Network-Map missing     |
| 3        | Function not executable |
| 4        | unknown department      |
| 5        | unknown scale           |

|   |      |                  |  |       |
|---|------|------------------|--|-------|
| N | 4    | Department       | 1 - 9999d,                             | ( 4)  |
|   |      |                  | <i>0d = entire network</i>             |       |
| N | 2    | Scale number.    | 1 - 64d,                               | ( 2)  |
|   |      |                  | <i>0d = all scales in a department</i> |       |
| N | 2    | Number of scales | (max. 64)                              | ( 2)  |
| N | 2 \  | Scale Number     | 1 - 99d                                |       |
|   | [64] |                  |  | (192) |
| N | 1 /  | Status           | 0 - 1d                                 |       |
|   |      |                  | <i>0d = active</i>                     |       |
|   |      |                  | <i>1d = inactive</i>                   |       |

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(210)

## Access Code: 6

### Function: Request Cash Register Status

This function returns the current network status and the devices and scales in a department. This data is based on the Network Map.

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |              |   |       |
|---|---|--------------|---|-------|
| N | 1 | CMD          | 0d  | ( 1)  |
| N | 5 | Code         | 6d  | ( 5)  |
| F | 4 | Control      | Access  | ( 4)  |
|   |   |              | ⇒ for a network of L2 scales only                       |       |
|   |   |              | 0d = scale circuit 0                                    |       |
|   |   |              | ⇒ for a network of L2 and MIRA scales                   |       |
|   |   |              | 0d = all scale circuits                                 |       |
|   |   |              | 0 - 9d = individual Scale Circuit (see Access Code 200) |       |
| N | 4 | Department   | 1 - 9999d,  | ( 4)  |
|   |   |              | 0d = entire network                                     |       |
| N | 2 | Scale Number | 1 - 64d,  | ( 2)  |
|   |   |              | 0d = all scales in the department                       |       |
|   |   |              |   | ----- |
|   |   |              |   | (16)  |

#### Response

|   |   |         |        |      |
|---|---|---------|--------|------|
| N | 1 | RSP     | 1,3d   | ( 1) |
| N | 5 | Code    | 6d     | ( 5) |
| F | 4 | Control | Status | ( 4) |

| Response | Meaning                 |
|----------|-------------------------|
| 0        | OK                      |
| 1        | Network inactive        |
| 2        | Network-Map missing     |
| 3        | Function not executable |
| 4        | unknown department      |
| 5        | unknown scale           |

|   |      |                  |                                   |       |
|---|------|------------------|-----------------------------------|-------|
| N | 4    | Department       | 1 - 9999d,                        | ( 4)  |
|   |      |                  | 0d = entire network               |       |
| N | 2    | Scale Number     | 1 - 64d,                          | ( 2)  |
|   |      |                  | 0d = all scales in the department |       |
| N | 2    | Number of scales | (max. 64)                         | ( 2)  |
| N | 2 \  | Scale Number.    | 1 - 64d                           |       |
|   | [64] |                  |                                   | (256) |
| N | 2 /  | Status           |                                   |       |

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(274)

| Decimal value | Meaning  | Bit |
|---------------|--|-----|
| 1             | 0 = Scale active 1 = Scale inactive                          | 0   |
| 2             | 0 = no Cash register 1 = Cash register                       | 1   |
| 4             | 0 = without cash draw 1 = with cash draw                     | 2   |
| 8             | 0 = Cash register switched on 1 = Cash register switched off | 3   |
| 16            | 0 = no Pre-Pack 2 1 = with Pre-Pack 2                        | 4   |
| 32            | Euro-Phase 1 ⇒ 0 = inactive 1 = active                       | 5   |
| 64            | Euro-Phase 2 ⇒ 0 = inactive 1 = active                       | 6   |
|               | Don't care   | 7   |

Example: Status 38

⇒ A status value of 38 represents the sum of Values 2 and 4 and 32 (bits 1,2 and 5 are set to 1)

⇒ Scale active; cash register; with cash draw; cash register is switched on; no Pre-Pack 2





## IV-B Data Entry - Access Codes 2XX

### Definition of Access Control for Data Entry

In Command Messages, Access Type and Key are to be stated in the Control Field

*Important! When entering new data, or deleting a record, only the primary key is to be used as a key. Furthermore, fields defined as keys in existing records can only be modified when the primary key has been given. The Status response in a response message is entered in the control field.*

| Access Type | Meaning               |  |
|-------------|-----------------------|--|
| __ _ 0      | write                 | write a record   |
| __ _ 1      | delete                | delete a record  |
| __ _ 2      | read equal            | read the given record  |
| __ _ 3      | read greater or equal | read the given record or the next record                       |
| __ _ 4      | read less or equal    | read the given record or the previous record                   |
| __ _ 5      | read greater          | read the next record   |
| __ _ 6      | read less             | read the previous record                                       |
| __ _ 7      | read all              | read all records   |
| __ _ 8      | delete all            | delete all records<br>(only for Access Codes 207, 208 and 209) |

| Key    | Meaning                                | Description                         |
|--------|--|-------------------------------------|
| __ 0 _ | Primary key                            | first field after the scale number  |
| __ 1 _ | Secondary key 1                        | second field after the scale number |
| __ 2 _ | Secondary key 2                        | third field after the scale number  |
| __ 3 _ | Secondary key 3                        | fourth field after the scale number |
| __ 8 _ | Issuing of department and scale number | error detection feature             |

| Data Server | Meaning |   |
|-------------|---------|---|
| for CMD     | __ 2 __ | Data Server check Data Record<br>Checks if records are the same in all scales belonging to a single department. |
| for RSP     | __ 2 __ | Data equal<br>Records are identical in all scales   |
|             | __ F __ | Data not equal<br>Records are not identical in all scales   |

| Status  | Meaning                | Description                                   |
|---------|------------------------|---|
| 0 _ _ _ | OK                     |   |
| 1 _ _ _ | file not created       |   |
| 2 _ _ _ | no free record         |   |
| 3 _ _ _ | file corrupt           |   |
| 4 _ _ _ | not found              | record not found                              |
| 5 _ _ _ | wrong key              |   |
| 6 _ _ _ | double key             | more than one record exists with the same key |
| C _ _ _ | (12) bad parameter     | an incorrect parameter has been sent          |
| D _ _ _ | (13) general error     |   |
| E _ _ _ | (14) undefined command |   |
| F _ _ _ | (15) not executable    |   |

## Access Code: 200

### Function: Network Map

#### Read the Network Map

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (read)

|   |   |               |                    |       |
|---|---|---------------|--------------------|-------|
| N | 1 | CMD/RSP       | 0d                 | ( 1)  |
| N | 5 | Code          | 200d               | ( 5)  |
| F | 4 | Control       | Access (read only) | ( 4)  |
| N | 4 | Department    | 0d                 | ( 4)  |
| N | 2 | Scale Number  | 0d                 | ( 2)  |
| N | 2 | Record Number | 0 - 64d            | ( 2)  |
|   |   |               |                    | ----- |
|   |   |               |                    | (18)  |

#### Response (read)

|   |       |                       |                       |   |
|---|-------|-----------------------|-----------------------|---|
| N | 1     | CMD/RSP               | 1,3d                  | ( 1)  |
| N | 5     | Code                  | 200d                  | ( 5)  |
| F | 4     | Control               | Access   Key   Status | ( 4)  |
| N | 4     | Department            | 0d                    | ( 4)  |
| N | 2     | Scale Number          | 0 - 64d               | ( 2)  |
| N | 2     | Record Number         | 0 - 64d               | ( 2)  |
| N | 2     | Node ID (= Scale No.) | 1 - 64d               | ( 2)  |
| N | 2     | Number of departments | 1 - 16d               | ( 2)  |
| N | 4[16] | Department numbers    | 1 - 9999d             | (64)  |
| N | 1     | Network Type          | 0 - 2d                | ( 1)  |
|   |       |                       |                       | 0d = stand alone                              |
|   |       |                       |                       | 1d = network                                  |
|   |       |                       |                       | 2d = roving operator                          |
| N | 2     | Roving Operator group | 1 - 16d,              | ( 2)  |
|   |       |                       |                       | 0d = without roving operator                  |
| N | 1     | Scale Circuit         | 0 - 9d                | ( 1)  |
|   |       |                       |                       | 0 = L2 in pure L2 network                     |
|   |       |                       |                       | 1 = L2 in mixed network with MIRA or Infoline |
|   |       |                       |                       | 4 = MIRA only                                 |
|   |       |                       |                       | 9 = Infoline only                             |
| C | 11    | Program Number        |                       | (11)  |
| C | 1     | Scale Type            | see table             | ( 1)  |
|   |       |                       |                       | -----   |
|   |       |                       |                       | (102)   |

**Details of the Field - Scale Type**

To interpret data, the character value of the Scale Type field must be divided into its High- and Low-Nibble values (see Table 1). The information can then be used to determine the scale type using Tables 2 and 3

| Char. value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | - | > | ? | P | Q | R | S | T | U | V | W | X | Y | Z | ( | \ | ) | ^ | _ | @ |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High Nibble | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| Low Nibble  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F | 0 |

Table 1: High and Low nibble values and their corresponding characters

| High Nibble value | Meaning    |
|-------------------|------------|
| 3                 | don't care |
| 4                 | Infoline   |
| 5                 | don't care |

Table 2: High Nibble values and their corresponding scale types

| Low Nibble Value   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Label data         |   | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X |
| Pre-Pack data      |   |   | X | X |   |   | X | X |   |   | X | X |   |   | X | X |
| Cash register data |   |   |   |   | X | X | X | X |   |   |   |   | X | X | X | X |
| Pre-Pack 2 data    |   |   |   |   |   |   |   |   | X | X | X | X | X | X | X | X |

Table 3: Low Nibble values and their corresponding scale types

**About the Response:**

The record with the number "00" always contains information obtained from the scale that is connected to the PC.

Additionally, another record is listed from this scale that is in accordance with the scale number (or address) sequence of the scale network.

(I.e. The Network Map holds a record for each scale. However, the first record received is always "00" and this always originates from the actual scale connected to the PC. Another record is received from this scale at a later point time, this time with the scales correct record number).

## Access Code: 201

### Function: Scale Configuration

#### Working with Scale Configuration Data

Note: for applications LL03, LL05, LL07, LM03, LM05, LM23 and LM25 - please use Access Code 279 (Scale Configuration – MIRA Specific) before using Access Code 201

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |                                  |                            |              |
|---|---|----------------------------------|----------------------------|--------------|
| N | 1 | CMD/RSP                          | 0d/1,3d                    | ( 1)         |
| N | 5 | Code                             | 201d                       | ( 5)         |
| F | 4 | Control                          | Access   Key   Status      | ( 4)         |
| N | 4 | Department                       | 0 - 9999d                  | ( 4)         |
| N | 2 | Scale Number                     | 0 - 99d                    | ( 2)         |
| N | 4 | Number of PLUs                   | 50 - XXXXd                 | ( 4)         |
|   |   | L2                               | ⇒ 3500                     |              |
|   |   | M                                | ⇒ 9999                     |              |
|   |   | M-d                              | ⇒ 300                      |              |
|   |   | M-f                              | ⇒ 500                      |              |
|   |   | M-f1                             | ⇒ 500                      |              |
|   |   | M-f2                             | ⇒ 4000                     |              |
| N | 3 | Number of Article Groups         | 10 - 200d                  | ( 3)         |
| N | 1 | Number of Sales Levels           | 1 - 4d                     | ( 1)         |
| N | 3 | Number of Checkout-Slips         | 100 - 999d (Cash register) | ( 3)         |
| N | 3 | Number of Collection-Slips       | 100 - 999d (Cash register) | ( 3)         |
| N | 4 | Number of Customer Entries       | 100 - 1000d                | ( 4)         |
| N | 2 | Number of Special Offers.        | 0 - 10d (2d for MIRA)      | ( 2)         |
| N | 2 | No. of Price Change Appointments | 0 - 10d (0d for MIRA)      | ( 2) only L2 |
| N | 3 | Number of Product Texts.         | 0 - 100d                   | ( 3)         |
| F | 4 | Configuration flag               | Flag                       | ( 4)         |

| Bit   | Meaning                            | Value  | Remarks                            |
|-------|------------------------------------|--|------------------------------------|
| 0     | Minus-PLU                          | 0 = no 1 = yes                                   |                                    |
| 1     | Operator Number with PI Number     | --   | Not used                           |
| 2     | CODE with PI Number                | --   | Not used                           |
| 3     | Inventory Mode                     | 0 = no 1 = yes                                   |                                    |
| 4     | Service Counter Mode               | 0 = no 1 = yes                                   |                                    |
| 5     | Self-serve Mode                    | 0 = no 1 = yes                                   |                                    |
| 6     | Pre-pack Mode                      | 0 = no 1 = yes                                   |                                    |
| 7-8   | Self-serve Mode Sales              | 00 = without                                     |                                    |
| 9-10  | Pre-pack Mode Sales                | 01 = on service counter sales<br>10 = no meaning |                                    |
| 11    | Order Mode                         | 0 = no 1 = yes                                   | only for Cash Register application |
| 12    | Customer Number on Checkout-Slip   | 0 = automatic 1 = manual                         | only for Cash Reg. application     |
| 13    | Customer Number on Collection-Slip | 0 = automatic 1 = manual                         | only for Cash Register application |
| 14-15 | don't care                         |  |                                    |

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(45)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |               |
|---|---|--------------|-----------------------|---------------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)          |
| N | 5 | Code         | 201d                  | ( 5)          |
| F | 4 | Control      | Access   Key   Status | ( 4)          |
| N | 4 | Department   | 0 - 9999d             | ( 4)          |
| N | 2 | Scale Number | 0 - 64d               | ( 2)          |
|   |   |              |                       | -----<br>(16) |

**Warning!** When creating or modifying a scale configuration, all data saved in the respective scale (e.g. PLUs, article groups, etc.) will be deleted!

## Access Code: 202

### Function: User Configuration

Working with User Configuration data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |   |                    |   |      |
|---|---|--------------------|---|------|
| N | 1 | CMD/RSP            | 0d/1,3d   | ( 1) |
| N | 5 | Code               | 202d  | ( 5) |
| F | 4 | Control            | Access   Key   Status   | ( 4) |
| N | 4 | Department         | 0 - 9999d   | ( 4) |
| N | 2 | Scale Number       | 0 - 64d   | ( 2) |
| N | 1 | Mode               | 0 - 1d<br><i>0d = service counter mode</i><br><i>1d = self-serve mode</i>   | ( 1) |
| N | 1 | Symbol keys        | 0 - 2d<br><i>0d = L2-&gt; 100 LP-&gt; 104 symbol keys</i><br><i>1d = L2-&gt; 50 LP-&gt; 52 symbol keys</i><br><i>2d = L2-&gt; 25 LP-&gt;26 symbol keys</i>  | ( 1) |
| N | 1 | Printout           | 0 - 6d<br><i>0d = receipt</i><br><i>1d = article label</i><br><i>2d = article label(s) and total label</i><br><i>3d = receipt with total label</i><br><i>4d = receipt on label</i><br><i>5d = article label(s) and receipt</i><br><i>6d = endless label</i> | ( 1) |
| N | 4 | Default Department | 0 - 9999d<br><i>0 = no default department.</i>  | ( 4) |
| N | 1 | TLU Print          | 0 - 4d<br><i>1d = TLU print 1 line</i><br><i>0d = no TLU print</i><br><i>2d = TLU print 2 line</i><br><i>3d = TLU print 3 line</i><br><i>4d = TLU print 4 line</i>  | ( 1) |
| F | 4 | User Config. 1     | Flag  | ( 4) |

| Bit | Meaning                          | Value                  |
|-----|----------------------------------|------------------------|
| 0   | Print EAN on Receipt             | 0 = off 1 = on         |
| 1   | Print EAN on Counterfoil Receipt | 0 = off 1 = on         |
| 2   | Print Total weight               | 0 = off 1 = on         |
| 3   | Print PLU                        | 0 = off 1 = on         |
| 4   | Counterfoil Receipt              | 0 = off 1 = on         |
| 5   | Print Header Text                | 0 = off 1 = on         |
| 6   | Print Footer Text                | 0 = off 1 = on         |
| 7   | Print Shop Name text             | 0 = off 1 = on         |
| 8   | Print Operator Text              | 0 = off 1 = on         |
| 9   | Print Roving Operator Group Name | 0 = off 1 = on         |
| 10  | Operator -Sign-on / Sign-off     | 0 = enable 1 = disable |
| 11  | Short Sign-Off                   | 0 = off 1 = on         |
| 12  | Receipt number font              | 0 = small 1 = large    |
| 13  | Product Text                     | 0 = without 1 = with   |
| 14  | Department Specific Receipt      | 0 = no 1 = yes         |
| 15  | Running Text                     | 0 = off 1 = on         |

F 4 User Configuration 2 Flag

( 4)

| Bit   | Meaning                                       | Value  |
|-------|---|--|
| 0     | Default Price                                 | 0 = Selling Price 1      1 = Selling Price 2                         |
| 1     | Selling Price 2                               | 0 = no    1 = yes  |
| 2     | Purchase Price                                | 0 = no    1 = yes  |
| 3     | Block Prices                                  | 0 = no    1 = yes  |
| 4     | Enter base price with                         | 0 = #    1 = Numeric keys  |
| 5     | Auto placement of decimal point in Base Price | 0 = disable      1 = enable  |
| 6     | Print price modification list                 | 0 = no    1 = yes  |
| 7     | Traffic Light Smiley                          | 0 = no    1 = yes  |
| 8     | Quick Serve                                   | 0 = no    1 = yes  |
| 9     | Label with receipt number                     | 0 = no    1 = yes  |
| 10    | Print key                                     | 0 = no    1 = yes  |
| 11    | Mini Prepacking                               | 0 = no    1 = yes  |
| 12-13 | Self-Serve Under Zero Alert                   | 00 = Variant 1<br>01 = Variant 2<br>10 = Variant 3<br>11 = Variant 4 |
| 14    | Print Tare value                              | 0 = no    1 = yes  |
| 15    | with Receipt repetition                       | 0 = no    1 = yes      ⇒ instruction                                 |

⇒ Bit 15 only with the applications LL07, LM05, LM25, LM06, LM26, LM07, LM27

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(32)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 202d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |

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(16)

## Access Code: 203

### Function: Shop Name Text

Working with Store Name text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |              |                       |       |
|---|----|--------------|-----------------------|-------|
| N | 1  | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5  | Code         | 203d                  | ( 5)  |
| F | 4  | Control      | Access   Key   Status | ( 4)  |
| N | 4  | Department   | 0d                    | ( 4)  |
| N | 2  | Scale Number | 0d                    | ( 2)  |
| C | 20 | Shop Name    | ASCII character       | (20)  |
|   |    |              |                       | ----- |
|   |    |              |                       | (36)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 203d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0d                    | ( 4)  |
| N | 2 | Scale Number | 0d                    | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

## Access Code: 204

### Function: Operator Register

#### Working with Operator Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                 |   |                       |
|---|----|-----------------|---|-----------------------|
| N | 1  | CMD/RSP         | 0d/1,3d   | ( 1)                  |
| N | 5  | Code            | 204d  | ( 5)                  |
| F | 4  | Control         | Access   Key   Status   | ( 4)                  |
| N | 4  | Department      | 0d  | ( 4)                  |
| N | 2  | Scale Number    | 0d  | ( 2)                  |
| N | 3  | Operator Number | 1 - 99d<br><i>Operator 1 – 99 decimal</i><br><i>100 – SS-Operator (can't be changed)</i><br><i>101 – PP-Operator (can't be changed)</i><br><i>102 – INET-Mode Operator (can't be changed)</i><br><i>Operator 102 – 200 binary (see table below) *)</i><br><br><i>*) only for LM06,26 / 07,27 / 09 and LF03 / 05 from version 148</i><br><i>and for LE06 / 07 from version 139</i> | ( 3)                  |
| C | 20 | Operator Name   | ASCII characters  | (20)<br>-----<br>(39) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                 |   |   |
|---|---|-----------------|---|---|
| N | 1 | CMD/RSP         | 0d/1,3d   | ( 1)  |
| N | 5 | Code            | 204d  | ( 5)  |
| F | 4 | Control         | Access   Key   Status   | ( 4)  |
| N | 4 | Department      | 0d,   | ( 4)  |
| N | 2 | Scale Number    | 0d  | ( 2)  |
| N | 3 | Operator Number | 1 - 99d<br><i>Operator 1 – 99 decimal</i><br><i>100 – SS-Operator (can't be changed)</i><br><i>101 – PP-Operator (can't be changed)</i><br><i>Operator 102 – 200 binary (see table below) *)</i><br><br><i>*) only for LM06,26 / 07,27 / 09 and LF03 / 05 from version 148</i><br><i>and for LE06 / 07 from version 139</i> | ( 3)<br><br><br><br><br><br><br>-----<br>(19) |

The operator-numbers 102 to 200 have to be interpreted binary. The first character has always to be 0 and the second character must be the ASCII-character corresponding to the operator-number. For the Transxxx command the second character must be feed with <ALT><ASCII-number>. At the scale can be used the decimal number.

The binary values for the operator-numbers 102 to 200 are according to the following table.

| Operator-Number    | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| recorded character | 0f  | 0g  | 0h  | 0i  | 0j  | 0k  | 0l  | 0m  | 0n  | 0o  | 0p  | 0q  | 0r  | 0s  | 0t  | 0u  | 0v  | 0w  | 0x  | 0y  |
| Operator-Number    | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 |
| recorded character | 0z  | 0{  | 0   | 0}  | 0~  | 0△  | 0Ç  | 0ü  | 0é  | 0â  | 0ä  | 0à  | 0â  | 0ç  | 0ê  | 0ë  | 0è  | 0ï  | 0î  | 0ì  |
| Operator-Number    | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 |
| recorded character | 0Ä  | 0Å  | 0É  | 0æ  | 0Æ  | 0ô  | 0ö  | 0ò  | 0û  | 0ù  | 0ÿ  | 0Ö  | 0Ü  | 0ø  | 0£  | 0Ø  | 0x  | 0f  | 0á  | 0í  |
| Operator-Number    | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 |
| recorded character | 0ó  | 0ú  | 0ñ  | 0Ñ  | 0ª  | 0º  | 0¿  | 0®  | 0¬  | 0½  | 0¼  | 0j  | 0«  | 0»  | 0»  | 0   | 0   | 0   | 0   | 0Á  |
| Operator-Number    | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 |     |
| recorded character | 0Â  | 0À  | 0©  | 0¶  | 0¶  | 0¶  | 0¶  | 0€  | 0¥  | 0¶  | 0L  | 0L  | 0T  | 0T  | 0—  | 0+  | 0ã  | 0Ã  | 0L  |     |



## Access Code: 205

### Function: Roving Operator Group

Handling Roving Operator Master Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                     |                       |       |
|---|----|---------------------|-----------------------|-------|
| N | 1  | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N | 5  | Code                | 205d                  | ( 5)  |
| F | 4  | Control             | Access   Key   Status | ( 4)  |
| N | 4  | Department          | 0d                    | ( 4)  |
| N | 2  | Scale Number        | 0d                    | ( 2)  |
| N | 2  | Roving Operator No. | 1 - 15d               | ( 2)  |
| C | 20 | Rov. Op. Group Name | ASCII character       | (20)  |
|   |    |                     |                       | ----- |
|   |    |                     |                       | (38)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                     |                       |       |
|---|---|---------------------|-----------------------|-------|
| N | 1 | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N | 5 | Code                | 205d                  | ( 5)  |
| F | 4 | Control             | Access   Key   Status | ( 4)  |
| N | 4 | Department          | 0d                    | ( 4)  |
| N | 2 | Scale Number        | 0d                    | ( 2)  |
| N | 2 | Rov. Op. Group Name | 1 - 15d               | ( 2)  |
|   |   |                     |                       | ----- |
|   |   |                     |                       | (18)  |

## Access Code: 206

### Function: Department Data

#### Working with Department Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                    |                                 |                  |
|---|----|--------------------|---------------------------------|------------------|
| N | 1  | CMD/RSP            | 0d/1,3d                         | ( 1)             |
| N | 5  | Code               | 206d                            | ( 5)             |
| F | 4  | Control            | Access   Key   Status           | ( 4)             |
| N | 4  | Department         | 0d                              | ( 4)             |
| N | 2  | Scale Number       | 0d                              | ( 2)             |
| N | 4  | Department Number. | 1 - 9999d                       | ( 4)             |
| C | 20 | Dept. Description  | ASCII characters                | (20)             |
| N | 4  | Default Department | 1 - 9999d                       | ( 4) only for L2 |
| N | 2  | EAN-Code Number    | 0 - 32d<br><i>0=no EAN-Code</i> | ( 2)             |

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(46)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                   |                       |      |
|---|---|-------------------|-----------------------|------|
| N | 1 | CMD/RSP           | 0d/1,3d               | ( 1) |
| N | 5 | Code              | 206d                  | ( 5) |
| F | 4 | Control           | Access   Key   Status | ( 4) |
| N | 4 | Department        | 0d                    | ( 4) |
| N | 2 | Scale Number      | 0d                    | ( 2) |
| N | 4 | Department Number | 1 - 9999d             | ( 4) |

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(20)

## Access Code: 207

### Function: Article Data

#### Working with Article Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|  |       |                      |                           |                    |
|--|-------|----------------------|---------------------------|--------------------|
| N  | 1     | CMD/RSP              | 0d/1,3d                   | ( 1)               |
| N  | 5     | Code                 | 207d                      | ( 5)               |
| F  | 4     | Control              | Access   Key   Status     | ( 4)               |
| N  | 4     | Department           | 1 - 9999d                 | ( 4)               |
| N  | 2     | Scale Number         | 0d                        | ( 2)               |
| N  | 6     | PLU Number           | 1 - 999999d               | ( 6)               |
| C  | 13    | EAN Number           | ASCII- Numeric            | (13)               |
| C  | 100   | Article Description  | ASCII character           | (100)              |
| N  | 8     | Selling Price 1      | +/- 0 - 999999(9)d        | ( 8)               |
| N  | 8     | Selling Price 2      | +/- 0 - 999999(9)d        | ( 8) only L2, LP K |
| N  | 1 [2] | VAT Number           | 0 - 9d                    | ( 2)               |
| N  | 8     | Purchase-Price       | +/- 0 - 999999(9)d        | ( 8) only for L2   |
| N  | 4     | Special Offer Number | !! disabled !!)           | ( 4)               |
| N  | 8 [2] | Staggered Price      | +/- 0 - 999999(9)d        | (16)               |
| N  | 8 [2] | Staggered Limit      | Pieces / Weight (g)       | (16)               |
| <i>if only the two limit values are defined (Staggered Prices are defined with 0) it's a matter of <b>Gratis-Quantity</b>, which begins with the first limit value and the maximum quantity is defined with the number of the second limit value</i> |       |                      |                           |                    |
| N  | 4     | Article Group        | 1 - 9999d                 | ( 4)               |
| N  | 2     | Tare number          | 1 - 99d, 0 = without Tare | ( 2)               |
| F  | 4     | Article Flag         | Flag                      | ( 4)               |

| Bit   | Meaning                       | Value  | Rem.              |
|-------|-------------------------------|--|-------------------|
| 0     | Weigh-/Non-weigh PLU          | 0 = Weigh      1 = non-weigh                                       |                   |
| 1     | Price overwrite               | 0 = no    1 = yes  |                   |
| 2     | Special Offer !! disabled !!) |  |                   |
| 3     | PLU EAN-Code-Nr. (High Bit)   | more Information next page   | nur LP            |
| 4     | Block article                 | 0 = no    1 = yes  |                   |
| 5     | Enable discount               | 0 = no    1 = yes  |                   |
| 6     | piece article solid / liquid  | 0 = solid / 1 = liquid   |                   |
| 7     | scanning Quality Bit (VV1)    | 0 = no    1 = yes  | LP from V 143/134 |
| 8 - 9 | Traffic Light Smiley          | 00 = without<br>01 = green<br>10 = red<br>11 = depending on margin | only for L2       |
| 10-11 | Product-Text data             | 00 = without<br>01 = display only<br>10 = display and print        |                   |
| 12-15 | PLU EAN-Code (Low Bits)       | more Information next page   | nur LP            |

|   |   |                    |                                       |                  |
|---|---|--------------------|---------------------------------------|------------------|
| N | 3 | Red-Yellow Limit   | 0 - 100d.<br><i>0 = don't display</i> | ( 3) only for L2 |
| N | 3 | Yellow-Green Limit | 0 - 100d<br><i>0 = don't display</i>  | ( 3) only for L2 |
| N | 3 | Product Text num.  | 0 - 999d<br><i>0 = no text</i>        | ( 3)             |

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(216)

### Explanation how to define a PLU-based EAN-Code number

With the LP-Applications LM06, LM26, LM07, LM27, LM08, LM28, LF03, LF05 from Version 133 and LE06, LE07 from Version 124 it's possible to define a PLU-based EAN-Code number for labels. If this number is  $\neq 0$  this EAN-Code will be printed on labels – if it's 0 the EAN-Code number of the label-layout is used.

To define the PLU-based EAN-Code number the Bits 15, 14, 13, 12 (Low Bits) and 3 (High Bit) are used. Every of this five 5 Bit is used as a Char.-value, the sum of all 5 Bit defines the EAN-Code number.

| Bit-Nr.    | Low Bits |    |    |    |    |    |   |   |   |   |   |   |    |   |   | High Bit |  |  |  |  | EAN-Code Number |          |         | remark |
|------------|----------|----|----|----|----|----|---|---|---|---|---|---|----|---|---|----------|--|--|--|--|-----------------|----------|---------|--------|
|            | 15       | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3  | 2 | 1 | 0        |  |  |  |  |                 |          |         |        |
| Char.-Wert | 8        | 4  | 2  | 1  |    |    |   |   |   |   |   |   | 16 |   |   |          |  |  |  |  |                 |          |         |        |
|            |          |    |    |    |    |    |   |   |   |   |   |   |    |   |   |          |  |  |  |  | Low Bit         | High Bit | EAN-Nr. |        |

#### Examples

|           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |                     |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---------------------|
| Flag 4000 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0  | 4  | PLU-based EAN-No.   |
| Flag 5000 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0  | 5  | PLU-based EAN-No.   |
| Flag 2008 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 16 | 18 | PLU-based EAN-No.   |
| Flag 9008 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 9 | 16 | 25 | PLU-based EAN-No.   |
| Flag 725B | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 7 | 16 | 23 | PLU-based EAN-No.   |
| Flag 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | Label based EAN-No. |

#### Command (delete or read) / Response (create, modify or delete)

|   |    |                     |                       |                 |
|---|----|---------------------|-----------------------|-----------------|
| N | 1  | CMD/RSP             | 0d/1,3d               | ( 1)            |
| N | 5  | Code                | 207d                  | ( 5)            |
| F | 4  | Control             | Access   Key   Status | ( 4)            |
| N | 4  | Department          | 1 - 9999d,            | ( 4)            |
| N | 2  | Scale Number        | 0d                    | ( 2)            |
|   |    |                     |                       |                 |
| N | 6  | PLU Number          | 1 - 999999d           | ( 6)            |
| C | 13 | EAN Number          | ASCII- Numeric        | (13) -> S-Key 1 |
| C | 10 | Article Description | ASCII characters      | (10) -> S-Key 2 |
|   |    |                     |                       | -----           |
|   |    |                     |                       | (45)            |

## Access Code: 208

### Function: Article Data – 1<sup>st</sup> Supplement for Labels

#### Working with Article Data

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |                      |                       |      |
|---|---|----------------------|-----------------------|------|
| N | 1 | CMD/RSP              | 0d/1,3d               | ( 1) |
| N | 5 | Code                 | 208d                  | ( 5) |
| F | 4 | Control              | Access   Key   Status | ( 4) |
| N | 4 | Department           | 1 - 9999d             | ( 4) |
| N | 2 | Scale Number         | 0d                    | ( 2) |
| N | 6 | PLU Number           | 1 - 999999d           | ( 6) |
| N | 2 | Label Definition No. | 0 - 32d, 0 = no label | ( 2) |
| F | 4 | Layout flags         | Flag                  | ( 4) |

| Bit  | Meaning  | Value  | Remark                                      |
|------|--|--|---|
| 0-1  | PLU Text alignment   | 00: align left<br>01: centre<br>10: auto align |   |
| 2    | Price per peice  | 0 = no / 1 = yes                               |   |
| 3    | Input request for number of pieces, fixed weight or filling quantity | 0 = no / 1 = yes                               | only in the PP1-Mode if the PLU is selected |
| 4    | Basic Price unit   | 0 = price/kg / 1 = price/100g                  | see *1)                                     |
| 5-15 | Don't care   |  |   |

\*1) only with LF03, LF05 from version 148 and Le06, Le07 from version 139

|   |       |                          |  |      |
|---|-------|--------------------------|--|------|
| N | 2 [4] | TLU Font                 | 0 - 20d  | ( 8) |
| N | 2     | Ingredients Font         | 0 - 20d  | ( 2) |
| N | 2     | Organisat. Name Txt. No. | 0 - 1d, 0d=no Organisation Name Text<br>1 - 15d for L2 | ( 2) |
| N | 2     | Advertising Text No.     | 0 - 1d, 0d=no Advertising Text<br>1 - 15d for L2       | ( 2) |
| N | 2     | Packing Date Text No.    | 1 - 30d, 0d=no Date text                               | ( 2) |
| N | 2     | Sell By Date Text No.    | 1 - 30d, 0d=no Date text                               | ( 2) |
| N | 2     | Use By Date Text No.     | 1 - 30d, 0d=no Date text                               | ( 2) |
| F | 4     | Date flags               | Flag   | ( 4) |

| Bit    | Bedeutung    | Werte   |          |
|--------|--------------|---|----------|
| 0 - 2  | Packing date | 000 ⇒ Do not print date<br>001 ⇒ Print date<br>010 ⇒ Print date with AM / PM Identifier and year<br>011 ⇒ Print date without year<br>100 ⇒ Print date with AM / PM Identifier without year<br>101 ⇒ Print Packing date and Use by date in <b>one line</b> without year<br>110 ⇒ Print Packing date and Use by date in <b>two lines</b> without year | *1<br>*1 |
| 3 - 5  | Sell by date | 000 ⇒ Do not print date<br>001 ⇒ Print date<br>010 ⇒ Print date with AM / PM Identifier and year<br>011 ⇒ Print date without year<br>100 ⇒ Print date with AM / PM Identifier without year<br>101 ⇒ Print no. of days offset  |          |
| 6 - 8  | Use by date  | See parameters for Sell by date   |          |
| 9      | Data format  | 0 = european format (DDMMJJ)<br>1 = american format (JJMMDD)  | *1       |
| 10 -15 | Don't care   |   |          |

\*1) only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC/bPro V108

F 4 Date Strike-Through flags Flag ( 4)

| Bit   | Meaning   | Value   | Rem.  |
|-------|---|---|---|
| 0     | Packing Date  | 0 = Don't strike-through<br>1 = Strike-through  |   |
| 1     | Sell By Date  |   |   |
| 2     | Use By Date   |   |   |
| 3 -14 | Don't care  |   |   |
| 15    | To calculate the fixed-weight base price of a non-weigh PLU and print it on a label | 0 = Don't print base price of non-weigh PLU<br>1 = Calculate base price of non-weigh PLU and print it | Only for L2 scales using application 03 or 27 |

F 4 Labelling Flags Flag ( 4)

| Bit   | Meaning  | Value    |
|-------|----------|----------|
| 0 - 7 | Currency | not used |
| 8 -15 | Unit     | not used |
|       |          |          |
|       |          |          |

|   |    |                       |   |      |             |
|---|----|-----------------------|---|------|-------------|
| N | 5  | Nutri Value           | 0 - 99999d                                    | ( 5) | only for L2 |
| N | 3  | Sell by Date - offset | 0 - 999d                                      | ( 3) |             |
| N | 3  | Use by Date - offset  | 0 - 999d                                      | ( 3) |             |
| N | 11 | Fixed Weight          | ( g / without Comma)                          | (11) |             |
| N | 11 | Plus-Weight           | ( g / without Comma)                          | (11) | only for L2 |
| N | 11 | Minus1-Weight         | ( g / without Comma)                          | (11) | only for L2 |
| N | 11 | Minus2-Weight         | ( g / without Comma)                          | (11) | only for L2 |
| N | 5  | Ave. Product Length   | (mm)  | ( 5) | only for L2 |
| N | 5  | Space Between Items   | (mm) (for light barrier)                      | ( 5) | only for L2 |
| N | 5  | Label Position        | (mm) (0 = central,<br>>0 = from leading edge) | ( 5) | only for L2 |

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(130)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |      |  |
|---|---|--------------|-----------------------|------|--|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |  |
| N | 5 | Code         | 208d                  | ( 5) |  |
| F | 4 | Control      | Access   Key   Status | ( 4) |  |
| N | 4 | Department   | 1 - 9999d             | ( 4) |  |
| N | 2 | Scale Number | 0d                    | ( 2) |  |
| N | 6 | PLU Number   | 1 - 999999d           | ( 6) |  |

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(22)

## Access Code: 209

### Function: Article Data – 2<sup>nd</sup> Supplement for Labels

Working with Article data / Ingredient text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|  |   |                 |                       |                                 |
|--|---|-----------------|-----------------------|---------------------------------|
| N  | 1 | CMD/RSP         | 0d/1,3d               | ( 1)                            |
| N  | 5 | Code            | 209d                  | ( 5)                            |
| F  | 4 | Control         | Access   Key   Status | ( 4)                            |
| N  | 4 | Department      | 1 - 9999d             | ( 4)                            |
| N  | 2 | Scale Number    | 0d                    | ( 2)                            |
| N  | 6 | PLU Number      | 1 - 999999d           | ( 6)                            |
| N  | 1 | Block Number    | 0 - 3d                | ( 1) only for L2 and LP-2 Flash |
| <i>0 – 1d ⇒ for L2, LP-2-Flash, bC and bPro</i><br><i>0 – 3d ⇒ for M06/26, LM07/27, LF03/05 from V155</i><br><i>for LE06/07 from V 146</i><br><i>0 – 7d ⇒ for LC03/05, LR03 form V 111</i>                           |   |                 |                       |                                 |
| C  | n | Ingredient text | ASCII-Zeichen         | ( n)                            |
| <i>for L2: n= 1 - 450</i><br><i>for LP/M 2-Flash: n= 1 – 450 (dependent from operator config.)</i><br><i>for LP/M 1-Flash: n= 1 – 300 (only block 0 available)</i><br><i>(incl. font size, Line Feed (char 210))</i> |   |                 |                       |                                 |
|  |   |                 |                       | -----                           |
|  |   |                 |                       | (23 + n)                        |
| bei L2 ⇒   |   |                 |                       | max. 423                        |
| bei LP/M-1-Flash ⇒   |   |                 |                       | max. 323                        |
| bei LP/M-2-Flash ⇒   |   |                 |                       | max. 1823                       |
| bei bC / bPro ⇒  |   |                 |                       | max. 3623                       |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |                                    |
|---|---|--------------|-----------------------|------------------------------------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)                               |
| N | 5 | Code         | 209d                  | ( 5)                               |
| F | 4 | Control      | Access   Key   Status | ( 4)                               |
| N | 4 | Department   | 1 - 9999d,            | ( 4)                               |
| N | 2 | Scale Number | 0d                    | ( 2)                               |
| N | 6 | PLU Number   | 1 - 999999d           | ( 6)                               |
| N | 1 | Block Number | 0 - 1d                | ( 1) only for L2 L2 and LP-2 Flash |
|   |   |              |                       | -----                              |
|   |   |              |                       | (23)                               |

## Access Code: 210

### Function: Article Group Data

#### Working with Article Groups

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                           |                       |                  |
|---|----|---------------------------|-----------------------|------------------|
| N | 1  | CMD/RSP                   | 0d/1,3d               | ( 1)             |
| N | 5  | Code                      | 210d                  | ( 5)             |
| F | 4  | Control                   | Access   Key   Status | ( 4)             |
| N | 4  | Department                | 1 - 9999d             | ( 4)             |
| N | 2  | Scale Number              | 0d                    | ( 2)             |
| N | 4  | Article Group Number      | 1 - 9999d             | ( 4)             |
| C | 20 | Article Group Description | ASCII character       | (20)             |
| N | 4  | Main Article Group Number | 1 - 9999d             | ( 4) only for L2 |
|   |    |                           |                       | -----            |
|   |    |                           |                       | (44)             |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                      |  |       |
|---|---|----------------------|--|-------|
| N | 1 | CMD/RSP              | 0d/1,3d  | ( 1)  |
| N | 5 | Code                 | 210d   | ( 5)  |
| F | 4 | Control              | Access   Key   Status<br>(delete is only possible when<br>no PLUs have been assigned-<br>to the article group) | ( 4)  |
| N | 4 | Department           | 1 -9999d   | ( 4)  |
| N | 2 | Scale Number         | 0d   | ( 2)  |
| N | 4 | Article Group Number | 1 - 9999d  | ( 4)  |
|   |   |                      |  | ----- |
|   |   |                      |  | (20)  |



## Access Code: 211

### Function: Receipt Text - Header and Footer

#### Working with Receipt Texts

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |     |                      |  |       |
|---|-----|----------------------|--|-------|
| N | 1   | CMD/RSP              | 0d/1,3d  | ( 1)  |
| N | 5   | Code                 | 211d   | ( 5)  |
| F | 4   | Control              | Access   Key   Status                                | ( 4)  |
| N | 4   | Department           | 0 - 9999d  | ( 4)  |
| N | 2   | Scale Number         | 0 - 64d  | ( 2)  |
| N | 1   | Receipt Text number. | 0 - 1d<br>0 = header<br>1 = footer                   | ( 1)  |
| C | 140 | Receipt Text         | ASCII character<br>(include font size for each line) | (140) |
|   |     |                      |  | ----- |
|   |     |                      |  | (157) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                     |                                    |       |
|---|---|---------------------|------------------------------------|-------|
| N | 1 | CMD/RSP             | 0d/1,3d                            | ( 1)  |
| N | 5 | Code                | 211d                               | ( 5)  |
| F | 4 | Control             | Access   Key   Status              | ( 4)  |
| N | 4 | Department          | 0 - 9999d                          | ( 4)  |
| N | 2 | Scale Number        | 0 - 64d                            | ( 2)  |
| N | 1 | Receipt Text Number | 0 - 1d<br>0 = header<br>1 = footer | ( 1)  |
|   |   |                     |                                    | ----- |
|   |   |                     |                                    | (17)  |

## Access Code: 212

### Function: Organisation Name Text for Labels

#### Working with Store Name Text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |  |                       |       |
|---|----|--|-----------------------|-------|
| N | 1  | CMD/RSP                                | 0d/1,3d               | ( 1)  |
| N | 5  | Code                                   | 212d                  | ( 5)  |
| F | 4  | Control                                | Access   Key   Status | ( 4)  |
| N | 4  | Department                             | 0d                    | ( 4)  |
| N | 2  | Scale Number                           | 0d                    | ( 2)  |
| N | 2  | Organisation Name Text No.             | 1d                    | ( 2)  |
|   |    |  | 1 - 15d for L2        |       |
| C | 70 | Organisation Name Text ASCII character |                       | (70)  |
|   |    |  |                       | ----- |
|   |    |  |                       | (88)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                            |                       |       |
|---|---|----------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                    | 0d/1,3d               | ( 1)  |
| N | 5 | Code                       | 212d                  | ( 5)  |
| F | 4 | Control                    | Access   Key   Status | ( 4)  |
| N | 4 | Department                 | 0d                    | ( 4)  |
| N | 2 | Scale Number               | 0d                    | ( 2)  |
| N | 2 | Organisation Name Text No. | 1 - 15d               | ( 2)  |
|   |   |                            |                       | ----- |
|   |   |                            |                       | (18)  |

## Access Code: 213

### Function: Running Text

#### Working with Running Text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |     |              |                       |       |
|---|-----|--------------|-----------------------|-------|
| N | 1   | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5   | Code         | 213d                  | ( 5)  |
| F | 4   | Control      | Access   Key   Status | ( 4)  |
| N | 4   | Department   | 0 - 9999d             | ( 4)  |
| N | 2   | Scale Number | 0 - 64d               | ( 2)  |
| C | 100 | Running Text | ASCII character       | (100) |
|   |     |              |                       | ----- |
|   |     |              |                       | (116) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 213d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

## Access Code: 214

### Function: EAN Codes (not including EAN128)

Working with EAN-Codes (only for EAN8 and EAN13)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                 |                        |       |
|---|----|-----------------|------------------------|-------|
| N | 1  | CMD/RSP         | 0d/1,3d                | ( 1)  |
| N | 5  | Code            | 214d                   | ( 5)  |
| F | 4  | Control         | Access   Key   Status  | ( 4)  |
| N | 4  | Department      | 0 - 9999d              | ( 4)  |
| N | 2  | Scale Number    | 0 - 64d                | ( 2)  |
| N | 2  | EAN Code Number | 1 - 32d                | ( 2)  |
| N | 1  | EAN Type        | 0 - 8d                 | ( 1)  |
|   |    |                 | Typ 0 ⇒ EAN 13         |       |
|   |    |                 | Typ 1 ⇒ EAN 8          |       |
| C | 13 | EAN Code        | (see EAN Code Details) | (13)  |
|   |    |                 |                        | ----- |
|   |    |                 |                        | (32)  |

#### EAN Code Details

| Legende der EAN-Werte           |                | Bemerkungen  |
|---------------------------------|----------------|--|
| C = Check digit                 | 1 Character    |  |
| N = Running receipt number      | 4 Characters   |  |
| P = PLU number                  | 4 Characters   |  |
| W = Article Group number        | 3 Characters   |  |
| A = Article number              | 4/5 Characters |  |
| B = Amount                      | 5/6 Characters |  |
| Q = Quantity                    | 4/5 Characters |  |
| R = 3 digit weight behind comma | 4/8 Characters | LP-2-Flash, LExx from V124, LM/LFxx from V133 (without LM03, 23) |
| S = 2 digit weight behind comma | 4/7 Characters | LP-2-Flash, LExx from V124, LM/LFxx from V133 (without LM03, 23) |
| T = 1 digit weight behind comma | 4/6 Characters | LP-2-Flash, LExx from V124, LM/LFxx from V133 (without LM03, 23) |
| number 0-9                      | 12 Characters  |  |

#### Possible placing of EAN Value in Barcode

| EAN Position | Possible Values  |
|--------------|------------------|
| 1 to 6       | 0-9, A, W, N, P, |
| 7 or 8:      | C                |
| 5 to 12      | R                |
| 6 to 12      | S                |
| 7 to 12      | T                |
| 8 to 12:     | B, Q, 0-9        |
| 13:          | C                |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                 |                       |       |
|---|---|-----------------|-----------------------|-------|
| N | 1 | CMD/RSP         | 0d/1,3d               | ( 1)  |
| N | 5 | Code            | 214d                  | ( 5)  |
| F | 4 | Control         | Access   Key   Status | ( 4)  |
| N | 4 | Department      | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number    | 0 - 64d               | ( 2)  |
| N | 2 | EAN-Code Number | 1 - 32d               | ( 2)  |
|   |   |                 |                       | ----- |
|   |   |                 |                       | (18)  |

## Access Code: 215

### Function: Tare Memory

Working with tare values

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 215d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 1 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
| N | 2 | Tare Number  | 1 - 99d               | ( 2)  |
|   |   |              | L2 ⇒ 0 - 16d          |       |
|   |   |              | LP 1-Flash ⇒ 0 - 16d  |       |
|   |   |              | LP 2 Flash ⇒ 0 - 99d  |       |
| N | 8 | Tare Number  | (g)                   | ( 8)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (26)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 215d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 1 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
| N | 2 | Tare Number  | 1 - 99d               | ( 2)  |
|   |   |              | L2 ⇒ 0 - 16d          |       |
|   |   |              | LP 1-Flash ⇒ 0 - 16d  |       |
|   |   |              | LP 2 Flash ⇒ 0 - 99d  |       |
|   |   |              |                       | ----- |
|   |   |              |                       | (18)  |

## Access Code: 216

### Function: Fixed Keys

#### Allocation of Fixed Keys

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |                    |  |                  |
|---|---|--------------------|--|------------------|
| N | 1 | CMD/RSP            | 0d/1,3d  | ( 1)             |
| N | 5 | Code               | 216d   | ( 5)             |
| F | 4 | Control            | Access   Key   Status  | ( 4)             |
| N | 4 | Department         | 1 - 9999d  | ( 4)             |
| N | 2 | Scale Number       | 0 - 64d  | ( 2)             |
| N | 3 | Fixed Key Number   | 1 - 109d<br>(upper limit depends on type of keyboard in scale) | ( 3)             |
| N | 4 | Department Number  | 1 - 9999d  | ( 4)             |
| N | 6 | PLU Number         | 1 - 999999d  | ( 6)             |
| N | 4 | Dept. Number-Shift | 1 - 9999d  | ( 4) only for L2 |
| N | 6 | PLU Number-Shift   | 1 - 999999d  | ( 6) only for L2 |

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(39)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                  |  |      |
|---|---|------------------|--|------|
| N | 1 | CMD/RSP          | 0d/1,3d  | ( 1) |
| N | 5 | Code             | 216d   | ( 5) |
| F | 4 | Control          | Access   Key   Status  | ( 4) |
| N | 4 | Department       | 1 - 9999d  | ( 4) |
| N | 2 | Scale Number     | 0 - 64d  | ( 2) |
| N | 3 | Fixed Key Number | 1 - 109d<br>(upper limit depends on Type of keyboard in scale) | ( 3) |

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(19)

## Access Code: 217

### Function: Pictograph Keys, for Self-Serve Applications

#### Allocation of Pictograph Keys

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  |      |      |      | 2/a  |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  |      |      |      | 2/a  | 2/a  | 2/e  |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |   |                      |  |       |
|---|---|----------------------|--|-------|
| N | 1 | CMD/RSP              | 0d/1,3d  | ( 1)  |
| N | 5 | Code                 | 217d   | ( 5)  |
| F | 4 | Control              | Access   Key   Status  | ( 4)  |
| N | 4 | Department           | 1 - 9999d  | ( 4)  |
| N | 2 | Scale Number         | 0 - 64d  | ( 2)  |
| N | 3 | Pictogram Key Number | 1 - 144d<br>(upper limit depends on type of keyboard in scale) | ( 3)  |
| N | 4 | Department Number    | 1 - 9999d  | ( 4)  |
| N | 6 | PLU Number           | 1 - 999999d  | ( 6)  |
|   |   |                      |  | ----- |
|   |   |                      |  | (29)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                      |  |       |
|---|---|----------------------|--|-------|
| N | 1 | CMD/RSP              | 0d/1,3d  | ( 1)  |
| N | 5 | Code                 | 217d   | ( 5)  |
| F | 4 | Control              | Access   Key   Status  | ( 4)  |
| N | 4 | Department           | 1 - 9999d  | ( 4)  |
| N | 2 | Scale Number         | 0 - 64d  | ( 2)  |
| N | 3 | Pictogram Key Number | 1 - 144d<br>(upper limit depends on type of keyboard in scale) | ( 3)  |
|   |   |                      |  | ----- |
|   |   |                      |  | (19)  |

## Access Code: 218

### Function: VAT

#### Working with VAT Rates

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |              |   |       |
|---|---|--------------|---|-------|
| N | 1 | CMD/RSP      | 0d/1,3d   | ( 1)  |
| N | 5 | Code         | 218d  | ( 5)  |
| F | 4 | Control      | Access   Key   Status   | ( 4)  |
| N | 4 | Department   | 0d  | ( 4)  |
| N | 2 | Scale Number | 0d  | ( 2)  |
| N | 2 | VAT Number   | 0 - 15d   | ( 2)  |
| N | 4 | VAT Rate     | 0 - 9999d<br>(without decimal point)<br>VAT Rate format ###.## (00.00 to 99.99) | ( 4)  |
|   |   |              |   | ----- |
|   |   |              |   | (22)  |

#### Reserved VAT Numbers

| Number | reserved for                              |
|--------|---|
| 10     | Plus - manual input of Selling Price 1    |
| 11     | Input of Open Base Price, Selling Price 1 |
| 12     | Plus - manual input Selling Price 2       |
| 13     | Input of Open Base Price, Selling Price 2 |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 218d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0d                    | ( 4)  |
| N | 2 | Scale Number | 0d                    | ( 2)  |
| N | 2 | VAT Number   | 0 - 15d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (18)  |



## Access Code: 219

### Function: Date Text

#### Working with Date Text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |        |                  |                                    |          |
|---|--------|------------------|------------------------------------|----------|
| N | 1      | CMD/RSP          | 0d/1,3d                            | ( 1)     |
| N | 5      | Code             | 219d                               | ( 5)     |
| F | 4      | Control          | Access   Key   Status              | ( 4)     |
| N | 4      | Department       | 0d                                 | ( 4)     |
| N | 2      | Scale Number     | 0d                                 | ( 2)     |
| N | 2      | Date Text Number | 1 - 30d                            | ( 2)     |
|   |        |                  | 1 - 10 = Packing date              |          |
|   |        |                  | 11 - 20 = Sell-by date             |          |
|   |        |                  | 21 - 30 = Use-by date              |          |
| C | 30-100 | Date Texts       | ASCII-character                    | (30-100) |
|   |        |                  | 30 characters                      |          |
|   |        |                  | ⇒ for L2 and LP 1-Flash            |          |
|   |        |                  | 30 to 100 characters               |          |
|   |        |                  | ⇒ for LP 2-Flash applications from |          |
|   |        |                  | Vers. 137 for LM/LF and 128 for LE |          |
|   |        |                  | -----                              |          |
|   |        |                  |                                    | (48-118) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                  |                       |      |
|---|---|------------------|-----------------------|------|
| N | 1 | CMD/RSP          | 0d/1,3d               | ( 1) |
| N | 5 | Code             | 219d                  | ( 5) |
| F | 4 | Control          | Access   Key   Status | ( 4) |
| N | 4 | Department       | 0d                    | ( 4) |
| N | 2 | Scale Number     | 0d                    | ( 2) |
| N | 2 | Date Text Number | 1 - 30d               | ( 2) |
|   |   |                  | -----                 |      |
|   |   |                  |                       | (18) |

## Access Code: 220

### Function: Advertising Text

Working with Advertising Text.

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                         |                                   |       |
|---|----|-------------------------|-----------------------------------|-------|
| N | 1  | CMD/RSP                 | 0d/1,3d                           | ( 1)  |
| N | 5  | Code                    | 220d                              | ( 5)  |
| F | 4  | Control                 | Access   Key   Status             | ( 4)  |
| N | 4  | Department              | 0d                                | ( 4)  |
| N | 2  | Scale Number            | 0d                                | ( 2)  |
| N | 2  | Advertising Text Number | 0 - 9d for MIRA<br>1 - 15d for L2 | ( 2)  |
| C | 60 | Advertising Text        | ASCII character                   | (60)  |
|   |    |                         |                                   | ----- |
|   |    |                         |                                   | (78)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                         |                                   |       |
|---|---|-------------------------|-----------------------------------|-------|
| N | 1 | CMD/RSP                 | 0d/1,3d                           | ( 1)  |
| N | 5 | Code                    | 220d                              | ( 5)  |
| F | 4 | Control                 | Access   Key   Status             | ( 4)  |
| N | 4 | Department              | 0d                                | ( 4)  |
| N | 2 | Scale Number            | 0d                                | ( 2)  |
| N | 2 | Advertising Text Number | 0 - 9d for MIRA<br>1 - 15d for L2 | ( 2)  |
|   |   |                         |                                   | ----- |
|   |   |                         |                                   | (18)  |

## Access Code: 221

### Function: Mark-ups / Discounts

Working with Mark-ups / Discounts / Discounts. Mark-ups / Discounts and Discounts can also be used on MIRA scales not running a cash register application

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                           |  |      |
|---|----|---------------------------|--|------|
| N | 1  | CMD/RSP                   | 0d/1,3d  | ( 1) |
| N | 5  | Code                      | 221d   | ( 5) |
| F | 4  | Control                   | Access   Key   Status                            | ( 4) |
| N | 4  | Department                | 0d   | ( 4) |
| N | 2  | Scale Number              | 0d   | ( 2) |
| N | 1  | Mark-up / Discount Number | 0 - 9d   | ( 1) |
| C | 20 | Text (Display)            | ASCII character                                  | (20) |
| C | 20 | Text (Printer)            | ASCII character                                  | (20) |
| N | 5  | Mark-up / Discount (%)    | +/- 0 - 9999d                                    | ( 5) |
|   |    |                           | (input without decimal point)                    |      |
|   |    |                           | Mark-up / Discount format ##.## (00.00 to 99.99) |      |

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(62)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                           |                       |       |
|---|---|---------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                   | 0d/1,3d               | ( 1)  |
| N | 5 | Code                      | 221d                  | ( 5)  |
| F | 4 | Control                   | Access   Key   Status | ( 4)  |
| N | 4 | Department                | 0d                    | ( 4)  |
| N | 2 | Scale Number              | 0d                    | ( 2)  |
| N | 1 | Mark-up / Discount Number | 0 - 9d                | ( 1)  |
|   |   |                           |                       | ----- |
|   |   |                           |                       | (17)  |

## Access Code: 222

### Function: Sales Categories - for Reports

#### Working with Sales Categories

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                       |                       |       |
|---|----|-----------------------|-----------------------|-------|
| N | 1  | CMD/RSP               | 0d/1,3d               | ( 1)  |
| N | 5  | Code                  | 222d                  | ( 5)  |
| F | 4  | Control               | Access   Key   Status | ( 4)  |
| N | 4  | Department            | 0d                    | ( 4)  |
| N | 2  | Scale Number          | 0d                    | ( 2)  |
| N | 1  | Sales Category Number | 0 - 9d                | ( 1)  |
| C | 20 | Description           | ASCII character       | (20)  |
| N | 1  | Print VAT             | 0d = no / 1d = yes    | ( 1)  |
|   |    |                       |                       | ----- |
|   |    |                       |                       | (38)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                       |                       |       |
|---|---|-----------------------|-----------------------|-------|
| N | 1 | CMD/RSP               | 0d/1,3d               | ( 1)  |
| N | 5 | Code                  | 222d                  | ( 5)  |
| F | 4 | Control               | Access   Key   Status | ( 4)  |
| N | 4 | Department            | 0d                    | ( 4)  |
| N | 2 | Scale Number          | 0d                    | ( 2)  |
| N | 1 | Sales Category Number | 0 - 9d                | ( 1)  |
|   |   |                       |                       | ----- |
|   |   |                       |                       | (17)  |

**Access Code: 223****Function: Special Offers - Part 1 ⇒ Parameters****Working with Special Offers**

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |       |                            |                       |      |
|---|-------|----------------------------|-----------------------|------|
| N                                       | 1     | CMD/RSP                    | 0d/1,3d               | ( 1) |
| N                                       | 5     | Code                       | 223d                  | ( 5) |
| F                                       | 4     | Control                    | Access   Key   Status | ( 4) |
| N                                       | 4     | Department                 | 0d                    | ( 4) |
| N                                       | 2     | Scale Number               | 0d                    | ( 2) |
| N                                       | 4     | Special Offer Number       | 1 - 9999d             | ( 4) |
| C                                       | 20    | Special Offer Text         | ASCII character       | (20) |
| C                                       | 20    | Special Offer Receipt Text | ASCII character       | (20) |
| N                                       | 2 [3] | Start Date                 | dd / mm / yy          | ( 6) |
| N                                       | 2 [2] | Start Time                 | hh / mm               | ( 4) |
| N                                       | 2 [3] | End Date                   | dd / mm / yy          | ( 6) |
| N                                       | 2 [2] | End Time                   | hh / mm               | ( 4) |
| N                                       | 1     | Special Offer Status       | 0 - 8d                | ( 1) |
| 0d = special offer not in use           |       |                            |                       |      |
| 1d = special offer in use (RSP)         |       |                            |                       |      |
| 2d = special offer expired (RSP)        |       |                            |                       |      |
| 3d = special offer available (RSP)      |       |                            |                       |      |
| (after concluding special offer report) |       |                            |                       |      |
| 8d = special offer ready for use(!!!)   |       |                            |                       |      |

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(81)

(!!!): After using Access Code 224, use this record (Status 8) to indicate that the creation of a Special Offer is complete, so that the automatic Special Offer management is enabled !

**Command (delete or read) / Response (create, modify or delete)**

|   |   |                      |                       |       |
|---|---|----------------------|-----------------------|-------|
| N | 1 | CMD/RSP              | 0d/1,3d               | ( 1)  |
| N | 5 | Code                 | 223d                  | ( 5)  |
| F | 4 | Control              | Access   Key   Status | ( 4)  |
| N | 4 | Department           | 0d                    | ( 4)  |
| N | 2 | Scale Number         | 0d                    | ( 2)  |
| N | 4 | Special Offer Number | 1 - 9999d             | ( 4)  |
|   |   |                      |                       | ----- |
|   |   |                      |                       | (20)  |

## Access Code: 224

### Function: Special Offers - Part 2 ⇒ Assigning Articles

Working with Special Offers – assigning articles to a Special Offer

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |      |                           |                       |       |
|---|------|---------------------------|-----------------------|-------|
| N | 1    | CMD/RSP                   | 0d/1,3d               | ( 1)  |
| N | 5    | Code                      | 224d                  | ( 5)  |
| F | 4    | Control                   | Access   Key   Status | ( 4)  |
| N | 4    | Department                | 0d                    | ( 4)  |
| N | 2    | Scale Number              | 0d                    | ( 2)  |
| N | 4    | Special Offer Number      | 1 - 9999d             | ( 4)  |
| N | 4    | Department                | 1 - 9999d             | ( 4)  |
| N | 6    | PLU Number                | 1 - 999999d           | ( 6)  |
| N | 8[2] | Special Offer Price (RSP) | +/- 0 - 999999( 9)d   | (16)  |
| N | 8[2] | Don't care                |                       | (16)  |
|   |      |                           |                       | ----- |
|   |      |                           |                       | (62)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                      |                       |       |
|---|---|----------------------|-----------------------|-------|
| N | 1 | CMD/RSP              | 0d/1,3d               | ( 1)  |
| N | 5 | Code                 | 224d                  | ( 5)  |
| F | 4 | Control              | Access   Key   Status | ( 4)  |
| N | 4 | Department           | 0d                    | ( 4)  |
| N | 2 | Scale Number         | 0d                    | ( 2)  |
| N | 4 | Special Offer Number | 1 - 9999d             | ( 4)  |
| N | 4 | Department           | 0 - 9999d             | ( 4)  |
| N | 6 | PLU Number           | 0 - 999999d           | ( 6)  |
|   |   |                      |                       | ----- |
|   |   |                      |                       | (30)  |

**Access Code: 225****Function: Time-Governed Price Changes - Part 1 ⇒ Parameters**

## Working with Time-Governed Price Changes

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|  |      |                     |                       |      |
|--|------|---------------------|-----------------------|------|
| N  | 1    | CMD/RSP             | 0d/1,3d               | ( 1) |
| N  | 5    | Code                | 225d                  | ( 5) |
| F  | 4    | Control             | Access   Key   Status | ( 4) |
| N  | 4    | Department          | 0d                    | ( 4) |
| N  | 2    | Scale Number        | 0d                    | ( 2) |
| N  | 4    | Price Change Number | 1 - 9999d             | ( 4) |
| C  | 20   | Price Change Text   | ASCII character       | (20) |
| N  | 2[3] | Start Date          | dd / mm / yy          | ( 6) |
| N  | 2[2] | Start Time          | hh / mm               | ( 4) |
| N  | 1    | Price Change Status | 0 - 9d                | ( 1) |
| <i>0d = price change not in use</i>          |      |                     |                       |      |
| <i>1d = price change in use (RSP)</i>        |      |                     |                       |      |
| <i>8d = price change ready for use (!!!)</i> |      |                     |                       |      |

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(51)

(!!!): After using Access Codes 225 and 226, use this record (Status 8) to indicate that the creation of a Price Change is complete, so that the automatic Price Change management is enabled !

**Command (delete or read) / Response (create, modify or delete)**

|   |   |                     |                       |       |
|---|---|---------------------|-----------------------|-------|
| N | 1 | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N | 5 | Code                | 225d                  | ( 5)  |
| F | 4 | Control             | Access   Key   Status | ( 4)  |
| N | 4 | Department          | 0d                    | ( 4)  |
| N | 2 | Scale Number        | 0d                    | ( 2)  |
| N | 4 | Price Change Number | 1 - 9999d             | ( 4)  |
|   |   |                     |                       | ----- |
|   |   |                     |                       | (20)  |

**Access Code: 226****Function: Time-Governed Price Changes - Part 2 ⇒ Assigning Articles****Working with Time-Governed Price Changes**

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |      |                     |                       |       |
|---|------|---------------------|-----------------------|-------|
| N | 1    | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N | 5    | Code                | 226d                  | ( 5)  |
| F | 4    | Control             | Access   Key   Status | ( 4)  |
| N | 4    | Department          | 0d                    | ( 4)  |
| N | 2    | Scale Number        | 0d                    | ( 2)  |
| N | 4    | Price Change Number | 1 - 9999d             | ( 4)  |
| N | 4    | Department          | 1 - 9999d             | ( 4)  |
| N | 6    | PLU Number          | 1 - 999999d           | ( 6)  |
| N | 8[2] | Future Price        | +/- 0 - 999999( 9)d   | (16)  |
|   |      |                     |                       | ----- |
|   |      |                     |                       | (46)  |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |                     |                       |       |
|---|---|---------------------|-----------------------|-------|
| N | 1 | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N | 5 | Code                | 226d                  | ( 5)  |
| F | 4 | Control             | Access   Key   Status | ( 4)  |
| N | 4 | Department          | 0d                    | ( 4)  |
| N | 2 | Scale Number        | 0d                    | ( 2)  |
| N | 4 | Price Change Number | 1 - 9999d             | ( 4)  |
| N | 4 | Department          | 1 - 9999d             | ( 4)  |
| N | 6 | PLU Number          | 1 - 999999d           | ( 6)  |
|   |   |                     |                       | ----- |
|   |   |                     |                       | (30)  |



## Access Code: 227

### Function: Main Department Data

Working with Main Department Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                        |                       |       |
|---|----|------------------------|-----------------------|-------|
| N | 1  | CMD/RSP                | 0d/1,3d               | ( 1)  |
| N | 5  | Code                   | 227d                  | ( 5)  |
| F | 4  | Control                | Access   Key   Status | ( 4)  |
| N | 4  | Department             | 0d                    | ( 4)  |
| N | 2  | Scale Number           | 0d                    | ( 2)  |
| N | 4  | Default Department No. | 1 - 9999d             | ( 4)  |
| C | 20 | Description            | ASCII character       | (20)  |
|   |    |                        |                       | ----- |
|   |    |                        |                       | (40)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                        |                       |       |
|---|---|------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                | 0d/1,3d               | ( 1)  |
| N | 5 | Code                   | 227d                  | ( 5)  |
| F | 4 | Control                | Access   Key   Status | ( 4)  |
| N | 4 | Department             | 0d                    | ( 4)  |
| N | 2 | Scale Number           | 0d                    | ( 2)  |
| N | 4 | Default Department No. | 1 - 9999d             | ( 4)  |
|   |   |                        |                       | ----- |
|   |   |                        |                       | (20)  |

## Access Code: 228

### Function: Main Article Group Data

#### Working with Main Article Groups

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                        |                       |       |
|---|----|------------------------|-----------------------|-------|
| N | 1  | CMD/RSP                | 0d/1,3d               | ( 1)  |
| N | 5  | Code                   | 228d                  | ( 5)  |
| F | 4  | Control                | Access   Key   Status | ( 4)  |
| N | 4  | Department             | 1 - 9999d             | ( 4)  |
| N | 2  | Scale Number           | 0d                    | ( 2)  |
| N | 4  | Main Article Group No. | 1 - 9999d             | ( 4)  |
| C | 20 | Description            | ASCII character       | (20)  |
|   |    |                        |                       | ----- |
|   |    |                        |                       | (40)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                        |                       |       |
|---|---|------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                | 0d/1,3d               | ( 1)  |
| N | 5 | Code                   | 228d                  | ( 5)  |
| F | 4 | Control                | Access   Key   Status | ( 4)  |
| N | 4 | Department             | 1 -9999d              | ( 4)  |
| N | 2 | Scale Number           | 0d                    | ( 2)  |
| N | 4 | Main Article Group No. | 1 - 9999d             | ( 4)  |
|   |   |                        |                       | ----- |
|   |   |                        |                       | (20)  |

## Access Code: 229

### Function: Product Text Data

#### Working with Product Texts

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |     |                     |                                   |       |
|---|-----|---------------------|-----------------------------------|-------|
| N | 1   | CMD/RSP             | 0d/1,3d                           | ( 1)  |
| N | 5   | Code                | 229d                              | ( 5)  |
| F | 4   | Control             | Access   Key   Status             | ( 4)  |
| N | 4   | Department          | 1 - 9999d                         | ( 4)  |
| N | 2   | Scale Number        | 0d                                | ( 2)  |
| N | 4   | Product Text Number | 1 - 50d for LP<br>1 - 100d for L2 | ( 4)  |
| C | 100 | Product Text        | ASCII character                   | (100) |
|   |     |                     |                                   | ----- |
|   |     |                     |                                   | (120) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                     |                                   |       |
|---|---|---------------------|-----------------------------------|-------|
| N | 1 | CMD/RSP             | 0d/1,3d                           | ( 1)  |
| N | 5 | Code                | 229d                              | ( 5)  |
| F | 4 | Control             | Access   Key   Status             | ( 4)  |
| N | 4 | Department          | 1 - 9999d                         | ( 4)  |
| N | 2 | Scale Number        | 0d                                | ( 2)  |
| N | 4 | Product Text Number | 1 - 50d bei LP<br>1 - 100d for L2 | ( 4)  |
|   |   |                     |                                   | ----- |
|   |   |                     |                                   | (20)  |

## Access Code: 230

### Function: Label Types L2 (also see Access Code 242)

#### Working with Label Types

!!! all x- and y- positions and lengths are to be entered in dots !!!

!!! Access Code 242 should be used after using Access Code 230...!!!

If Access Code 230 is used to create or modify label settings, settings previously made using Access Code 242 are overwritten. If settings for label separation and their tolerances are to be used, they would have to be newly set using Access Code 242, after Access Code 230 has been used.

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|  |       |                         |  |      |
|--|-------|-------------------------|--|------|
| N  | 1     | CMD/RSP                 | 0d/1,3d  | ( 1) |
| N  | 5     | Code                    | 230d   | ( 5) |
| F  | 4     | Control                 | Access   Key   Status  | ( 4) |
| N  | 4     | Department              | 0d   | ( 4) |
| N  | 2     | Scale Number            | 0d   | ( 2) |
| N  | 2     | Label Definition Number | 0 - 32d 0: no Label( 2)  |      |
| N  | 2     | Bitmap Number           | 0 - 16d,<br>0: no bitmap   | ( 2) |
| N  | 3     | Label Width             | 1 - 640d<br>+64 (64-80): rewind - on   | ( 3) |
| N  | 3     | Label Length            | 1 - 816d   | ( 3) |
| N  | 1     | Print Direction         | 0 - 1d<br>0 = readable / 1 = reverse   | ( 1) |
| <b>Graphic Objects</b>                   |       |                         |  |      |
| N  | 1 [5] | Graphic Object Type     | 0 - 6d<br>0 = don't print<br>1 = print horizontal line<br>2 = print vertical line<br>3 = print rectangular frame<br>4 = print circle<br>5 = print diagonal<br>6 = print ellipse  | ( 5) |
| N  | 3 [5] | G. x-Position           | 1 - 640d   | (15) |
| N  | 3 [5] | G. y-Position           | 1 - 816d   | (15) |
| N  | 1 [5] | G. Line Thickness       | 1 - 8d   | ( 5) |
| N  | 3 [5] | G. Length               | 1 - 640d or radius   | (15) |
| N  | 3 [5] | G. Height               | 0 - 816d, 0 = Line   | (15) |
| N  | 1 [5] | G. Line Style           | 0 - 1<br>0d = continuous line<br>1d = dashed line  | ( 5) |
| <b>PLU/Ingredients</b>                   |       |                         |  |      |
| N  | 1     | PI Switch               | 0 - 4d<br>0 = no text<br>1 = textfield is rectangular<br>2 = textfield with rectangular border, left aligned<br>3 = textfield with rectangular border, right aligned<br>4 = textfield with rectangular border, entire length | ( 1) |
| N  | 2     | PI Line Spacing         | 0 - nnd  | ( 2) |
| N  | 1     | PI Print Direction      | 0d=0°, 1d=90°, 3d=270°   | ( 1) |
| N  | 3     | PI x-Position           | 1 - 640d   | ( 3) |
| N  | 3     | PI y-Position           | 1 - 816d   | ( 3) |
| N  | 3     | PI Field Height         | 1 - 816d   | ( 3) |
| N  | 3     | PI Field Width          | 1 - 640d   | ( 3) |
| <b>PLU/Ingredient/Rectangular Border</b> |       |                         |  |      |
| N  | 3     | PIR x-Position          | 1 - 640d   | ( 3) |
| N  | 3     | PIR y-Position          | 1 - 816d   | ( 3) |
| N  | 3     | PIR Field Height        | 0 - 816d   | ( 3) |
| N  | 3     | PIR Field Width         | 0 - 816d   | ( 3) |

|                                       |       |                             |                                   |       |
|---------------------------------------|-------|-----------------------------|-----------------------------------|-------|
| <b>Organisation Name Text</b>         |       |                             |                                   |       |
| N                                     | 1     | <b>ONT</b> print direction  | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 3     | <b>ONT</b> x-Position       | 0 - 640d, 0 = no <b>ONT</b>       | ( 3)  |
| N                                     | 3     | <b>ONT</b> y-Position       | 1 - 816d                          | ( 3)  |
| N                                     | 3     | <b>ONT</b> Field Height     | 1 - 816d                          | ( 3)  |
| N                                     | 3     | <b>ONT</b> Field Width      | 1 - 640d                          | ( 3)  |
| <b>Advertising Text</b>               |       |                             |                                   |       |
| N                                     | 1     | <b>AT</b> Print Direction   | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 3     | <b>AT</b> x-Position        | 0 - 640d, 0 = no <b>AT</b>        | ( 3)  |
| N                                     | 3     | <b>AT</b> y-Position        | 1 - 816d                          | ( 3)  |
| N                                     | 3     | <b>AT</b> Field Height      | 1 - 816d                          | ( 3)  |
| N                                     | 3     | <b>AT</b> Field Width       | 1 - 640d                          | ( 3)  |
| <b>Miscellaneous Text</b>             |       |                             |                                   |       |
| N                                     | 2[4]  | <b>MT</b> Font Size         | 0 - 20d, 0 = no <b>MT</b>         | ( 8)  |
| N                                     | 1[4]  | <b>MT</b> Print Direction   | 0d=0°, 1d=90°, 3d=270°            | ( 4)  |
| N                                     | 3[4]  | <b>MT</b> x-Position        | 1 - 640d                          | (12)  |
| N                                     | 3[4]  | <b>MT</b> y-Position        | 1 - 816d                          | (12)  |
| C                                     | 30[4] | <b>MT</b> Text              | ASCII character                   | (120) |
| <b>Dates</b>                          |       |                             |                                   |       |
| N                                     | 2[3]  | <b>DA</b> Font Size         | 0 - 20d, 0 = no <b>DA</b>         | ( 6)  |
| N                                     | 1[3]  | <b>DA</b> Print Direction   | 0d=0°, 1d=90°, 3d=270°            | ( 3)  |
| N                                     | 3[3]  | <b>DA</b> x-Position        | 0 - 640d                          | ( 9)  |
| N                                     | 3[3]  | <b>DA</b> y-Position        | 0 - 816d                          | ( 9)  |
| x=y=0 = One date after the other      |       |                             |                                   |       |
| <b>Date Texts</b>                     |       |                             |                                   |       |
| N                                     | 1[3]  | <b>DAT</b> Print Direction  | 0d=0°, 1d=90°, 3d=270°            | ( 3)  |
| N                                     | 3[3]  | <b>DAT</b> x-Position       | 0 - 640d, 0 = no <b>DAT</b>       | ( 9)  |
| N                                     | 3[3]  | <b>DAT</b> y-Position       | 1 - 816d                          | ( 9)  |
| N                                     | 3[3]  | <b>DAT</b> Field Height     | 1 - 816d                          | ( 9)  |
| N                                     | 3[3]  | <b>DAT</b> Field Width      | 1 - 640d                          | ( 9)  |
| <b>Date Strike-Through Fields (X)</b> |       |                             |                                   |       |
| N                                     | 1[3]  | <b>DAX</b> Print Direction  | 0d=0°, 1d=90°, 3d=270°            | ( 3)  |
| N                                     | 3[3]  | <b>DAX</b> x-Pos            | 1 - 640d, 0=do not strike through | ( 9)  |
| N                                     | 3[3]  | <b>DAX</b> y-Position       | 1 - 816d                          | ( 9)  |
| N                                     | 3[3]  | <b>DAX</b> Field Height     | 1 - 816d                          | ( 9)  |
| N                                     | 3[3]  | <b>DAX</b> Field Width      | 1 - 640d                          | ( 9)  |
| <b>EAN Code</b>                       |       |                             |                                   |       |
| N                                     | 2     | <b>EAN</b> Code Number      | 0 - 32d, 0 = no <b>EAN</b>        | ( 2)  |
| N                                     | 3     | <b>EAN</b> Field Height     | 1 - 816d                          | ( 3)  |
| N                                     | 3     | <b>EAN</b> Field Width      | 0d = Standard, 1d = wide          | ( 3)  |
| N                                     | 1     | <b>EAN</b> Print Direction  | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 3     | <b>EAN</b> x-Position       | 1 - 640d                          | ( 3)  |
| N                                     | 3     | <b>EAN</b> y-Position       | 1 - 816d                          | ( 3)  |
| <b>Weight</b>                         |       |                             |                                   |       |
| N                                     | 2     | Weight Font Size            | 0 - 20d, 0 = no Weight            | ( 2)  |
| N                                     | 1     | Weight Print Direction      | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 2     | Weight Value (numeric)      | 1 - 10d                           | ( 2)  |
| N                                     | 3     | Weight x-Position           | 1 - 640d                          | ( 3)  |
| N                                     | 3     | Weight y-Position           | 1 - 816d                          | ( 3)  |
| <b>Weight Unit</b>                    |       |                             |                                   |       |
| N                                     | 2     | Weight Unit Font Size       | 0 - 20d, 0 = no Weight Unit       | ( 2)  |
| N                                     | 1     | Weight Unit Print Direction | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 3     | Weight Unit x-Position      | 1 - 640d                          | ( 3)  |
| N                                     | 3     | Weight Unit y-Position      | 1 - 816d                          | ( 3)  |
| C                                     | 5     | Weight Unit Text            | ASCII characters                  | ( 5)  |
| <b>Price</b>                          |       |                             |                                   |       |
| N                                     | 2     | Price Font Size             | 0 - 20d, 0 = no Price             | ( 2)  |
| N                                     | 1     | Price Print Direction       | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 2     | Price Value (numeric)       | 1 - 10d                           | ( 2)  |
| N                                     | 3     | Price x-Position            | 1 - 640d                          | ( 3)  |
| N                                     | 3     | Price y-Position            | 1 - 816d                          | ( 3)  |
| <b>Price Unit</b>                     |       |                             |                                   |       |
| N                                     | 2     | Price Unit Font Size        | 0 - 20d, 0 = no Price Unit        | ( 2)  |
| N                                     | 1     | Price Unit Direction        | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                                     | 3     | Price Unit x-Position       | 1 - 640d                          | ( 3)  |
| N                                     | 3     | Price Unit y-Position       | 1 - 816d                          | ( 3)  |
| C                                     | 8     | Price Unit Text             | ASCII characters                  | ( 8)  |

|                            |       |                                    |                                   |       |
|----------------------------|-------|------------------------------------|-----------------------------------|-------|
| <i>Amount Text</i>         |       |                                    |                                   |       |
| N                          | 2     | Amount Font Size                   | 0 - 20d, 0 = no Amount Text       | ( 2)  |
| N                          | 1     | Amount Print Direction             | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | Amount No. of Characters           | 1 - 10d                           | ( 2)  |
| N                          | 3     | Amount x-Position                  | 1 - 640d                          | ( 3)  |
| N                          | 3     | Amount y-Position                  | 1 - 816d                          | ( 3)  |
| <i>Amount Unit</i>         |       |                                    |                                   |       |
| N                          | 2     | Amount Unit Font Size              | 0 - 20d, 0 = no Amount Unit       | ( 2)  |
| N                          | 1     | Amount Unit Print Direction        | 0d=0°, 1d=90°, 3d=2 70°           | ( 1)  |
| N                          | 3     | Amount Unit x-Position             | 1 - 640d                          | ( 3)  |
| N                          | 3     | Amount Unit y-Position             | 1 - 816d                          | ( 3)  |
| C                          | 5     | Amount Unit No. of Characters      |                                   | ( 5)  |
| <i>Nutri Value</i>         |       |                                    |                                   |       |
| N                          | 2     | Nutri Value Font Size              | 0 - 20d, 0 = no Nutri Value       | ( 2)  |
| N                          | 1     | Nutri Value Print Direction        | 0d=0°, 1d=90°, 3d=2 70°           | ( 1)  |
| N                          | 2     | Nutri Value No. of Characters      | 1 - 10d                           | ( 2)  |
| N                          | 3     | Nutri Value x-Position             | 1 - 640d                          | ( 3)  |
| N                          | 3     | Nutri Value y-Position             | 1 - 816d                          | ( 3)  |
| <i>Nutri Value Unit</i>    |       |                                    |                                   |       |
| N                          | 2     | <b>NVU</b> Font Size               | 0 - 20d, 0 = no <b>NVU</b>        | ( 2)  |
| N                          | 1     | <b>NVU</b> Print Direction         | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 3     | <b>NVU</b> x-Position              | 1 - 640d                          | ( 3)  |
| N                          | 3     | <b>NVU</b> y-Position              | 1 - 816d                          | ( 3)  |
| C                          | 8     | <b>NVU</b> No. of Characters       | ASCII characters                  | ( 8)  |
| <i>PLU Number</i>          |       |                                    |                                   |       |
| N                          | 2     | <b>PLU</b> Font Size               | 0 - 20d, 0 = no <b>PLU</b> Number | ( 2)  |
| N                          | 1     | <b>PLU</b> Print Direction         | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>PLU</b> No. of Characters       | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>PLU</b> x-Position              | 1 - 640d                          | ( 3)  |
| N                          | 3     | <b>PLU</b> y-Position              | 1 - 816d                          | ( 3)  |
| <i>Scale Number</i>        |       |                                    |                                   |       |
| N                          | 2     | <b>Scale Num</b> Font Size         | 0 - 20d, 0 = no <b>Scale Num</b>  | ( 2)  |
| N                          | 1     | <b>Scale Num</b> Print Direction   | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>Scale Num</b> No. of Characters | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>Scale Num</b> x-Position        | 1 - 640d                          | ( 3)  |
| N                          | 3     | <b>Scale Num</b> y-Position        | 1 - 816d                          | ( 3)  |
| <i>Receipt Number</i>      |       |                                    |                                   |       |
| N                          | 2     | <b>Rec Num</b> Font Size           | 0 - 20d, 0 = no <b>Rec Num</b>    | ( 2)  |
| N                          | 1     | <b>Rec Num</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>Rec Num</b> No. of characters   | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>Rec Num</b> x-Position          | 1 - 640d                          | ( 3)  |
| N                          | 3     | <b>Rec Num</b> y-Position          | 1 - 816d                          | ( 3)  |
| <i>Miscellaneous Value</i> |       |                                    |                                   |       |
| N                          | 2[4]  | <b>MV</b> Font Size                | 0 - 20d, 0 = no <b>MV</b>         | ( 8)  |
| N                          | 1[4]  | <b>MV</b> Print Direction          | 0d=0°, 1d=90°, 3d=270°            | ( 4)  |
| N                          | 3[4]  | <b>MV</b> x-Position               | 1 - 640d                          | (12)  |
| N                          | 3[4]  | <b>MV</b> y-Position               | 1 - 816d                          | (12)  |
| C                          | 10[4] | <b>MV</b> Text                     | ASCII characters                  | (40)  |
|                            |       |                                    |                                   | ----- |
|                            |       |                                    |                                   | (647) |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |                         |                       |       |
|---|---|-------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                 | 0d/1,3d               | ( 1)  |
| N | 5 | Code                    | 230d                  | ( 5)  |
| F | 4 | Control                 | Access   Key   Status | ( 4)  |
| N | 4 | Department              | 0d                    | ( 4)  |
| N | 2 | Scale Number            | 0d                    | ( 2)  |
|   |   |                         |                       |       |
| N | 2 | Label Definition Number | 0 - 32d               | ( 2)  |
|   |   |                         |                       | ----- |
|   |   |                         |                       | (18)  |

## Access Code: 231

### Function: Payment Methods – Non EU Currencies

Working with Payment Methods (e.g. cash, cheque, card, vouchers, foreign currency etc.)

*This Access Code does not support EU currency exchange rates that are programmed into the scale or EU currencies as a payment method. For EU currencies, please use Access Code 276.*

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                     |   |       |
|---|----|---------------------|---|-------|
| N | 1  | CMD/RSP             | 0d/1,3d   | ( 1)  |
| N | 5  | Code                | 231d  | ( 5)  |
| F | 4  | Control             | Access   Key   Status   | ( 4)  |
| N | 4  | Department          | 0d  | ( 4)  |
| N | 2  | Scale Number        | 0d  | ( 2)  |
| N | 1  | Payment Method Text | 1 - 9d<br><i>0d = base currency</i><br><i>9d = secondary currency</i> | ( 1)  |
| C | 20 | Description         | ASCII character   | (20)  |
| C | 3  | Abbreviation        | ASCII character   | ( 3)  |
| N | 1  | Decimal places      | 0 - 3d  | ( 1)  |
| N | 1  | Rounding            | 0 - 1d<br><i>0 = to nearest one</i><br><i>1 = to nearest five</i>     | ( 1)  |
| N | 11 | Factor              | (without decimal point, 1 10 100)                                     | (11)  |
| N | 11 | Rate                | (without decimal point)   | (11)  |
|   |    |                     |   | ----- |
|   |    |                     |   | (64)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                    |                       |       |
|---|---|--------------------|-----------------------|-------|
| N | 1 | CMD/RSP            | 0d/1,3d               | ( 1)  |
| N | 5 | Code               | 231d                  | ( 5)  |
| F | 4 | Control            | Access   Key   Status | ( 4)  |
| N | 4 | Department         | 0d                    | ( 4)  |
| N | 2 | Scale Number       | 0d                    | ( 2)  |
| N | 1 | Payment Method No. | 1 - 9d                | ( 1)  |
|   |   |                    |                       | ----- |
|   |   |                    |                       | (17)  |

**Access Code: 233****Function: Keyboard Configuration – for non Cash Register Applications**

Keyboard Function Allocation for non cash register software

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |       |                    |  |      |
|---|-------|--------------------|--|------|
| N | 1     | CMD/RSP            | 0d/1,3d  | ( 1) |
| N | 5     | Code               | 233d   | ( 5) |
| F | 4     | Control            | Access   Key   Status  | ( 4) |
| N | 4     | Department         | 0 - 9999d  | ( 4) |
| N | 2     | Scale Number       | 0 - 64d  | ( 2) |
| N | 3     | Keyboard Type      | 0 - 6d<br>0d = T144 L2<br>2d = T96 L2<br>3d = T83 L2<br>4d = T100 L2<br>5d = T79 LP, M<br>6d = T98 LP, M<br>7d = T104 LP, M<br>8d = T82 LP, M<br>9d = T144 LP, M | ( 3) |
| N | 3     | Fixed Key          | 0 - 109d   | ( 3) |
| N | 3     | Operator Keys      | 2 - 61d L2<br>2 - 70d MIRA   | ( 3) |
| N | 3     | Tare Keys          | 0 - 10d  | ( 3) |
| N | 3     | Department Keys    | 0 - 16d  | ( 3) |
| N | 4[16] | Department numbers | 0 - 9999d  | (64) |
| F | 4     | Function Keys      | see definition   | ( 4) |

Definition table for function key allocation

| Bit     | Meaning                              | Value            | Remark      |
|---------|--------------------------------------|------------------|-------------|
| 0       | Void Key                             | 0 = no / 1 = yes |             |
| 1       | Change Key (i.e. for money)          | 0 = no / 1 = yes |             |
| 2       | II Price Key                         | 0 = no / 1 = yes | only for L2 |
| 3       | Department Key                       | 0 = no / 1 = yes | see )*      |
| 4       | X Key (i.e. multiply)                | 0 = no / 1 = yes |             |
| 5       | Article Group Key                    | 0 = no / 1 = yes | see )*      |
| 6       | Minus Key                            | 0 = no / 1 = yes |             |
| 7       | Plus Key                             | 0 = no / 1 = yes |             |
| 8       | Basket Key (only with Cash register) | 0 = no / 1 = yes | see )*      |
| 9       | Key Open Base Price                  | 0 = no / 1 = yes |             |
| 10 - 15 | Don't care                           |                  |             |

)\* In MIRA scales, these keys are to be programmed as special function keys



N 4[109] Special function keys

(436)

*Definition table for Special function key allocation*

| Decimal      | Meaning                     | Hex          | Remark      |
|--------------|-----------------------------|--------------|-------------|
| 0000 – 0511  | Don't care (ASCII chars.)   | 000h - 1FFh  |             |
| 0512 – 1023  | Fixed Function Keys         | 200h - 3FFh  |             |
| 1024 onwards | Programmable Function keys  | 400h onwards |             |
| 1024 – 1087  | Mark-up / Discount key      | 400h - 43Fh  |             |
| 1088 - 1151  | Payment Method              | 440h - 47Fh  |             |
| 1152 – 1215  | Sales Category              | 480h - 4BFh  |             |
| 1216 – 1279  | Miscellaneous function keys | 4C0h - 4FFh  |             |
| 1216         | Checkout-Slip key           | 4C0h         |             |
| 1217         | Collection-Slip key         | 4C1h         |             |
| 1218         | Basket key                  | 4C2h         | (only MIRA) |
| 1232         | Department key              | 4D0h         | (only MIRA) |
| 1233         | Article Group key           | 4D1h         | (only MIRA) |
| 1536 onwards | PLU Fixed keys              | 600h onwards |             |
| 2048 onwards | Operator keys               | 800h onwards |             |
| 2560 onwards | Tare keys                   | A00h onwards |             |
| 3072 onwards | Direct Department keys      | C00h onwards |             |

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(535)**Command (read) / Response (create, modify)**

|   |   |              |  |      |
|---|---|--------------|--|------|
| N | 1 | CMD/RSP      | 0d/1,3d  | ( 1) |
| N | 5 | Code         | 233d   | ( 5) |
| F | 4 | Control      | Access   Key   Status<br>1 – delete not possible | ( 4) |
| N | 4 | Department   | 0 - 9999d  | ( 4) |
| N | 2 | Scale Number | 0 - 64d  | ( 2) |

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(16)

**Example of values for Function Key allocation**

Decimal value    Function Key

|      |  |
|------|--|
| 1232 | Department key                                     |
| 3074 | Direct Department key (3072) for department 2 (+2) |
| 1539 | PLU Fixed key (1536) Number 3 (+3)                 |
| 2561 | Tare key (2560) Number 1 (+1)                      |
| 1026 | Mark-up / Discount (1024) Number 2 (+2)            |

## Access Code: 235

### Function: Scales - Lock / Unlock

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |    |                |  |       |
|---|----|----------------|--|-------|
| N | 1  | CMD/RSP        | 0d/1,3d  | ( 1)  |
| N | 5  | Code           | 235d   | ( 5)  |
| F | 4  | Control        | 0d   | ( 4)  |
| N | 4  | Department     | 0d   | ( 4)  |
| N | 2  | Scale Number   | 0d   | ( 2)  |
| N | 1  | Lock / Unlock. | 0 - 1d<br>0 = <i>Unlock</i><br>1 = <i>Lock</i> | ( 1)  |
| C | 20 | Lock Text      | ASCII characters                               | (20)  |
|   |    |                |  | ----- |
|   |    |                |  | (37)  |

#### Response

|   |   |              |        |       |
|---|---|--------------|--------|-------|
| N | 1 | RSP          | 1,3d   | ( 1)  |
| N | 5 | Code         | 235d   | ( 5)  |
| N | 4 | Control      | Status | ( 4)  |
| N | 4 | Department   | 0d     | ( 4)  |
| N | 2 | Scale Number | 0d     | ( 2)  |
|   |   |              |        | ----- |
|   |   |              |        | (16)  |

**Access Code: 236****Function: Deletion of Article Based Sales – Without Deletion Date**

Performed after the final reading of sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |      |               |  |             |
|---|------|---------------|--|-------------|
| N | 1    | CMD           | 0d   | ( 1)        |
| N | 5    | Code          | 236d   | ( 5)        |
| F | 4    | Control       | Sales level  | ( 4)        |
|   |      |               | 0000 = sales level 1   |             |
|   |      |               | 0100 = sales level 2   |             |
|   |      |               | 0200 = sales level 3   | only for L2 |
|   |      |               | 0300 = sales level 4   | only for L2 |
|   |      |               | 0000 = service-counter sales   |             |
|   |      |               | 0400 = self-service sales  |             |
|   |      |               | 0800 = pre-pack sales  |             |
|   |      |               | 0C00 = inventory sales   |             |
|   |      |               | can be deleted per department number                                     |             |
|   |      |               | only for LM06/26/07/27 from V 157, LF03/05 from V157, LE06/07 from V 148 |             |
|   |      |               | bC/bPro V113   |             |
| N | 4    | Department    | 0 - 9999d  | ( 4)        |
|   |      |               | only for inventory sales   |             |
| N | 2    | Scale Number  | 0d   | ( 2)        |
| N | 1    | Sales Type    | 0 - 1d   | ( 1)        |
|   |      |               | 0 = general Sales (TAF is deleted)                                       |             |
|   |      |               | 1 = Special Offer Article Sales (TAF is not deleted)                     |             |
|   |      |               | 2 = general sales (TAF is not deleted)                                   |             |
| N | 2[3] | Deletion Date | not supported  | ( 6)        |
| N | 2[2] | Deletion Time | not supported  | ( 4)        |
|   |      |               |  | -----       |
|   |      |               |  | (27)        |

Note: Deletion Date and Deletion Time are supported in Access Code 598!

**Response**

|   |   |              |        |       |
|---|---|--------------|--------|-------|
| N | 1 | RSP          | 1,3d   | ( 1)  |
| N | 5 | Code         | 236d   | ( 5)  |
| F | 4 | Control      | Status | ( 4)  |
| N | 4 | Department   | 0d     | ( 4)  |
| N | 2 | Scale Number | 0d     | ( 2)  |
|   |   |              |        | ----- |
|   |   |              |        | (16)  |

## Access Code: 237

### Function: Configurable Report

Including Batch Data for Daily, Weekly, Monthly and Yearly Closing of Sales

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 237d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0d                    | ( 4) |
| N | 2 | Scale Number | 0d                    | ( 2) |

|   |   |                      |                                   |      |
|---|---|----------------------|-----------------------------------|------|
| N | 1 | Sales Closing Number | 0 - 3d                            | ( 1) |
|   |   |                      | 0 = sales closing 1               |      |
|   |   |                      | 1 = sales closing 2               |      |
|   |   |                      | 2 = sales closing 3 ⇨ only for L2 |      |
|   |   |                      | 3 = sales closing 4 ⇨ only for L2 |      |

|   |   |                           |              |                  |
|---|---|---------------------------|--------------|------------------|
| N | 1 | Print intern. or external | 0 - 1d       | ( 1) only for L2 |
|   |   |                           | 0 = internal |                  |
|   |   |                           | 1 = external |                  |

|   |   |                 |                |      |
|---|---|-----------------|----------------|------|
| F | 4 | Report CFG Flag | see Definition | ( 4) |
|---|---|-----------------|----------------|------|

| Bit | Meaning                    | Value            |
|-----|----------------------------|------------------|
| 0   | Include operator           | 0 = no / 1 = yes |
| 1   | Include Default Department | 0 = no / 1 = yes |
| 2   | Include Department         | 0 = no / 1 = yes |
| 3   | Include Main Article Group | 0 = no / 1 = yes |
| 4   | Include Article group      | 0 = no / 1 = yes |
| 5   | Include PLU                | 0 = no / 1 = yes |
| 6   | Include Special Offer      | 0 = no / 1 = yes |
| 7   | Include Price Change       | 0 = no / 1 = yes |
| 8   | Include Summary Journal    | 0 = no / 1 = yes |
| 9   | Journal Detailed Journal   | 0 = no / 1 = yes |
| 10  | Don't care                 |                  |
|     |                            |                  |
|     |                            |                  |

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(22)

#### Command (read) / Response (create, modify)

|   |   |              |                         |      |
|---|---|--------------|-------------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d                 | ( 1) |
| N | 5 | Code         | 237d                    | ( 5) |
| F | 4 | Control      | Access   Key   Status   | ( 4) |
|   |   |              | 1 – delete not possible |      |
| N | 4 | Department   | 0d                      | ( 4) |
| N | 2 | Scale Number | 0d                      | ( 2) |

|   |   |                |                     |             |
|---|---|----------------|---------------------|-------------|
| N | 1 | Closing Number | 0 - 2d              | ( 1)        |
|   |   |                | 0 = sales closing 1 |             |
|   |   |                | 1 = sales closing 2 |             |
|   |   |                | 2 = sales closing 3 | only for L2 |
|   |   |                | 3 = sales closing 4 | only for L2 |

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(17)

## Access Code: 238

### Function: Date / Time

Request or set time from scale network

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |      |              |                       |       |
|---|------|--------------|-----------------------|-------|
| N | 1    | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5    | Code         | 238d                  | ( 5)  |
| F | 4    | Control      | Access   Key   Status | ( 4)  |
| N | 4    | Department   | 0d                    | ( 4)  |
| N | 2    | Scale Number | 0d                    | ( 2)  |
|   |      |              |                       |       |
| N | 2[3] | Date         | dd / mm / yy          | ( 6)  |
| N | 2[3] | Time         | hh / mm / ss          | ( 6)  |
|   |      |              |                       | ----- |
|   |      |              |                       | (28)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 238d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0d                    | ( 4)  |
| N | 2 | Scale Number | 0d                    | ( 2)  |
|   |   |              |                       |       |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

## Access Code: 239

### Function: Configuration of COM1 / COM2

Set Interface parameters of COM1 or COM2 (Channel A, Channel B)

*Note: Access Code 239 takes effect only on the scale connected to the PC. On MIRA scales, the only configurable COM port is COM1 (i.e. Channel A) - COM2 (Channel B) is only for use with a cash-draw.*

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |               |   |             |
|---|---|---------------|---|-------------|
| N | 1 | CMD           | 0d  | ( 1)        |
| N | 5 | Code          | 239d  | ( 5)        |
| F | 4 | Control       | Access   Key   Status   | ( 4)        |
| N | 4 | Department    | 0d  | ( 4)        |
| N | 2 | Scale Number  | 0d  | ( 2)        |
| N | 1 | COMx          | 0 - 1d  | ( 1)        |
|   |   |               | 0 = COM1 (Channel A)  |             |
|   |   |               | 1 = COM2 (Channel B)  | only for L2 |
|   | 3 | Method        | 0 - 255d  | ( 3)        |
|   |   |               | 0 = TransL2 without modem   |             |
|   |   |               | 1 = TransL2 with modem  | only for L2 |
|   |   |               | 4 = external printer  | only for L2 |
|   |   |               | 5 = cash register system  | only for L2 |
|   |   |               | 6 = HandScanner (Barcode-Reader)  |             |
|   |   |               | 7 = only for production-use   |             |
|   |   |               | 8 = Electronic Cash Terminal (only LM03,23 and LF03)  |             |
|   |   |               | 9 = compatibility mode LUTRANA (MT-F)   |             |
|   |   |               | 10* = Prozedure 0 with CRC32 Checksum   |             |
|   |   |               | 11* = Prozedure 11 with CRC32 Checksum  |             |
|   |   |               | 255 = COMx not functional   |             |
|   |   |               | *) only for LM05/25/06/26/07/27 and for LF03/05 from V150, for LM08,28 from V144 and for Le05/06/07 from V141 |             |
| F | 4 | Protocol Flag |   | ( 4)        |
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(123)

**Response**

|   |   |              |                       |             |
|---|---|--------------|-----------------------|-------------|
| N | 1 | CMD          | 0d                    | ( 1)        |
| N | 5 | Code         | 239d                  | ( 5)        |
| F | 4 | Control      | Access   Key   Status | ( 4)        |
| N | 4 | Department   | 0d                    | ( 4)        |
| N | 2 | Scale Number | 0d                    | ( 2)        |
| N | 1 | COMx         | 0 - 1d                | ( 1)        |
|   |   |              | 0 = COM1 (Channel A)  |             |
|   |   |              | 1 = COM2 (Channel B)  | only for L2 |
|   |   |              |                       | -----       |
|   |   |              |                       | (17)        |

## Access Code: 242

### Function: Label Separation and Separation Tolerance

!!! all x- and y- positions and lengths are to be entered in dots !!!

!!! Access Code 242 is a supplement to Access Code 230 !!!

If Access Code 230 is used to create or modify label settings, settings previously made using Access Code 242 are overwritten.

If settings for label separation and their tolerances are to be used, they would have to be newly set using Access Code 242, after Access Code 230 has been used.

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |   |                      |                    |       |
|---|---|----------------------|--------------------|-------|
| N | 1 | CMD/RSP              | 0d/1,3d            | ( 1)  |
| N | 5 | Code                 | 242d               | ( 5)  |
| F | 4 | Control              | only WR, DL and RD | ( 4)  |
| N | 4 | Department           | 0d                 | ( 4)  |
| N | 2 | Scale Number         | 0d                 | ( 2)  |
|   |   |                      |                    |       |
| N | 2 | Label Type Number    | 0 - 32d            | ( 2)  |
| N | 3 | Separation           | 0 - 816d           | ( 3)  |
| N | 3 | Separation Tolerance | 8 - 99d            | ( 3)  |
|   |   |                      |                    | ----- |
|   |   |                      |                    | (24)  |

#### Command (delete and read) / Response (create, modify, delete)

|   |   |                   |                    |       |
|---|---|-------------------|--------------------|-------|
| N | 1 | CMD/RSP           | 0d/1,3d            | ( 1)  |
| N | 5 | Code              | 242d               | ( 5)  |
| F | 4 | Control           | only WR, DL and RD | ( 4)  |
| N | 4 | Department        | 0d                 | ( 4)  |
| N | 2 | Scale Number      | 0d                 | ( 2)  |
|   |   |                   |                    |       |
| N | 2 | Label Type Number | 0 - 32d            | ( 2)  |
|   |   |                   |                    | ----- |
|   |   |                   |                    | (18)  |



**Access Code: 243****Function: Standard Label Definition Serv.-Counter, Self-Serv., Pre-Pack 1**

Label data for Self-serve Mode, Service Counter Mode and Total Label

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |   |                         |  |      |
|---|---|-------------------------|--|------|
| N | 1 | CMD/RSP                 | 0d/1,3d  | ( 1) |
| N | 5 | Code                    | 243d   | ( 5) |
| F | 4 | Control                 | Access   Key   Status  | ( 4) |
| N | 4 | Department              | 0 - 9999d  | ( 4) |
| N | 2 | Scale Number            | 0 - 64d  | ( 2) |
| N | 1 | Label Definition Number | 0 - 3d<br><i>0d = Self-serve Label</i><br><i>1d = Service Counter Label</i><br><i>2d = Total Label</i><br><i>3d = Pre-Pack Label</i><br><i>4d = INET-label *1)</i><br><i>5d = REWRAP-label *2)</i><br><i>*1) ⇒ only for LM06,26,07,27 from V150 / LF03,05 from V150 / LE06,07 from V141</i><br><i>*29 ⇒ only for LM06,26,07,27 from V157 / LF03,05 from V157 / LE06,07 from V148 bC/bPro ab V113</i> | ( 1) |
| N | 2 | Label Type Number       | 0 - 32d, 0 = no Label  | ( 2) |
| F | 4 | Layout Flags            | Flag   | ( 4) |

| Bit  | Meaning   |
|------|---|
| 0-1  | 00 ⇒ Left aligned<br>01 ⇒ Centralised<br>10 ⇒ Auto format |
| 2-15 | Don't care  |

|   |      |                         |   |      |
|---|------|-------------------------|---|------|
| N | 2[4] | TLU font                | 0 - 20d   | ( 6) |
| N | 2    | Ingredients Font        | 0 - 20d   | ( 6) |
| N | 2    | Organis. Name Text No.  | 0 - 1d, 0d=no Organisation Name Text<br><i>1 - 15d for L2</i> | ( 2) |
| N | 2    | Advertising Text Number | 0 - 1d, 0d=no Advertising Text<br><i>1 - 15d for L2</i>       | ( 2) |
| N | 2    | Packing Date Text No.   | 0 - 10d, 0d=no Date Text                                      | ( 2) |
| N | 2    | Sell-by Date Text No.   | 0 - 20d, 0d=no Date Text                                      | ( 2) |
| N | 2    | Use-by Date Text No.    | 0 - 30d, 0d=no Date Text                                      | ( 2) |

F 4 Date flags (4)

| Bit    | Bedeutung    | Werte   |    |
|--------|--------------|---|----|
| 0 - 2  | Packing date | 000 ⇒ Do not print date<br>001 ⇒ Print date<br>010 ⇒ Print date with AM / PM Identifier and year<br>011 ⇒ Print date without year<br>100 ⇒ Print date with AM / PM Identifier without year<br>101 ⇒ Print Packing date and Use by date in <b>one line</b> without year *1<br>110 ⇒ Print Packing date and Use by date in <b>two lines</b> without year *1 |    |
| 3 - 5  | Sell by date | 000 ⇒ Do not print date<br>001 ⇒ Print date<br>010 ⇒ Print date with AM / PM Identifier and year<br>011 ⇒ Print date without year<br>100 ⇒ Print date with AM / PM Identifier without year<br>101 ⇒ Print no. of days offset  |    |
| 6 - 8  | Use by date  | See parameters for Sell by date   |    |
| 9      | Data format  | 0 = european format (DDMMJJ)<br>1 = american format (JJMMDD)  | *1 |
| 10 -15 | Don't care   |   |    |

\*1) only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148

F 4 Date Strike-Through-Fl. Flag (4)

| Bit    | Meaning                     | Value            |
|--------|-----------------------------|------------------|
| 0      | Packing date strike-through | 0 = no / 1 = yes |
| 1      | Sell-by date strike-through | 0 = no / 1 = yes |
| 2      | Use-by date strike-through  | 0 = no / 1 = yes |
| 3 - 15 | Don't care                  |                  |

N 3 Sell-by date offset 0 - 999d (3)

N 3 Use-by date offset 0 - 999d (3)

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(53)**Command (read) / Response (create, modify)**

N 1 CMD/RSP 0d/1,3d (1)

N 5 Code 243d (5)

F 4 Control Access | Key | Status (4)  
1 – delete not possible

N 4 Department 0 - 9999d (4)

N 2 Scale Number 0 - 64d (2)

N 1 Label Definition Number 0 - 3d (1)

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(17)

## Access Code: 244

### Function: Initiating a Software Download

Sets all Scales of a Network into Software Download Mode

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |              |            |       |
|---|---|--------------|------------|-------|
| N | 1 | CMD          | 0d         | ( 1)  |
| N | 5 | Code         | 244d       | ( 5)  |
| F | 4 | Control      | Don't care | ( 4)  |
| N | 4 | Department   | 0d         | ( 4)  |
| N | 2 | Scale Number | 0d         | ( 2)  |
|   |   |              |            | ----- |
|   |   |              |            | (16)  |

#### Response

|   |   |              |         |       |
|---|---|--------------|---------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d | ( 1)  |
| N | 5 | Code         | 244d    | ( 5)  |
| F | 4 | Control      | Status  | ( 4)  |
| N | 4 | Department   | 0d      | ( 4)  |
| N | 2 | Scale Number | 0d      | ( 2)  |
|   |   |              |         | ----- |
|   |   |              |         | (16)  |

## Access Code: 245

### Function: Sleep Mode – Enable / Disable

Sets all Scales of a Network into Sleep Mode

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d        | ( 1) |
| N | 5 | Code         | 245d           | ( 5) |
| F | 4 | Control      | 0 - 1d         | ( 4) |
|   |   |              | 0 = activate   |      |
|   |   |              | 1 = deactivate |      |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |
|   |   |              | -----          | (16) |

#### Response

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | RSP          | 1,3d   | ( 1) |
| N | 5 | Code         | 245d   | ( 5) |
| F | 4 | Control      | Status | ( 4) |
| N | 4 | Department   | 0d     | ( 4) |
| N | 2 | Scale Number | 0d     | ( 2) |
|   |   |              | -----  | (16) |

**Access Code: 246****Function: User Configuration – Supplement for Cash Register Applicat.**

Working with User Configuration Data - (cash register supplement)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |     |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a |

**Command (create or modify) / Response (read)**

|   |   |                       |                       |      |
|---|---|-----------------------|-----------------------|------|
| N | 1 | CMD/RSP               | 0d/1,3d               | ( 1) |
| N | 5 | Code                  | 246d                  | ( 5) |
| F | 4 | Control               | Access   Key   Status | ( 4) |
| N | 4 | Department            | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number          | 0 - 64d               | ( 2) |
| F | 4 | Scale Configuration 3 | Flag                  | ( 4) |

| Bit  | Meaning                                  | Value  |
|------|--|--|
| 0    | Cash Draw                                | 0: without 1: with   |
| 1    | Automatic opening of Cash Draw           | 0: no 1: yes   |
| 2    | Automatic change computation             | 0: no 1: yes   |
| 3-4  | TAF Overflow<br>(TAF = Transaction File) | 00: no warning<br>01: warning<br>10: warning and print summary<br>11: warning and print detailed |
| 5    | Delete Checkout-Slip when printed        | 0: no 1: yes   |
| 6    | Print EAN on Checkout-Slip               | 0: no 1: yes   |
| 7    | Print EAN on Collection-Slip             | 0: no 1: yes   |
| 8-15 | Don't care                               |  |

-----  
(20)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 246d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |

-----  
(16)

## Access Code: 248

### Function: Keyboard Config. - for L2 with Cash Register Appl.

Working with Keyboard Function Allocation for Cash Register Software

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |       |                    |  |      |
|---|-------|--------------------|--|------|
| N | 1     | CMD/RSP            | 0d/1,3d  | ( 1) |
| N | 5     | Code               | 248d   | ( 5) |
| F | 4     | Control            | Access   Key   Status  | ( 4) |
| N | 4     | Department         | 0 - 9999d  | ( 4) |
| N | 2     | Scale Number       | 0 - 64d  | ( 2) |
| N | 3     | Keyboard Type      | 0 - 4d<br>0d = 144 key<br>2d = 96 key<br>3d = 83 key<br>4d = 100 key | ( 3) |
| N | 3     | Fixed keys         | 0 - 109d   | ( 3) |
| N | 3     | Operator keys      | 2 - 61d  | ( 3) |
| N | 3     | Tare keys          | 0 - 10d  | ( 3) |
| N | 3     | Department keys    | 0 - 16d  | ( 3) |
| N | 4[16] | Department numbers | 0 - 9999d  | (64) |
| F | 4     | Function keys      | see Definition   | ( 4) |

Definition table for function key allocation

| Bit     | Meaning                     | Value            | Remark |
|---------|-----------------------------|------------------|--------|
| 0       | Void Key                    | 0 = no / 1 = yes |        |
| 1       | Change Key (i.e. money)     | 0 = no / 1 = yes |        |
| 2       | Price 2 Key                 | 0 = no / 1 = yes |        |
| 3       | Don't care                  | 0 = no / 1 = yes |        |
| 4       | X Key (i.e. multiplication) | 0 = no / 1 = yes |        |
| 5       | Don't care                  | 0 = no / 1 = yes |        |
| 6       | Minus Key                   | 0 = no / 1 = yes |        |
| 7       | Plus Key                    | 0 = no / 1 = yes |        |
| 8       | Don't care                  | 0 = no / 1 = yes |        |
| 9       | Open Base Price Key         | 0 = no / 1 = yes |        |
| 10 - 15 | Don't care                  |                  |        |

)\* In MIRA scales, these keys are to be programmed as special function keys

|   |        |                       |       |
|---|--------|-----------------------|-------|
| N | 4[109] | Special Function Keys | (436) |
|---|--------|-----------------------|-------|

Definition table for special function key allocation

| Decimal value | Meaning                     | Hex value    | Remark      |
|---------------|-----------------------------|--------------|-------------|
| 0000 - 0511   | Don't care (ASCII char.)    | 000h - 1FFh  |             |
| 0512 - 1023   | Fixed function keys         | 200h - 3FFh  |             |
| 1024 onwards  | Programmable function keys  | 400h onwards |             |
| 1024 - 1087   | Mark-up / Discount key      | 400h - 43Fh  |             |
| 1088 - 1151   | Payment Method              | 440h - 47Fh  |             |
| 1152 - 1215   | Sales Categories            | 480h - 4BFh  |             |
| 1216 - 1279   | Miscellaneous function keys | 4C0h - 4FFh  |             |
| 1216          | Checkout-Slip Key           | 4C0h         |             |
| 1217          | Collection-Slip Key         | 4C1h         |             |
| 1218          | Basket key                  | 4C2h         | (only MIRA) |
| 1232          | Department Key              | 4D0h         | (only MIRA) |
| 1233          | Article Group Key           | 4D1h         | (only MIRA) |
| 1536 onwards  | PLU fixed Keys              | 600h onwards |             |
| 2048 onwards  | Operator keys               | 800h onwards |             |
| 2560 onwards  | Tare keys                   | A00h onwards |             |
| 3072 onwards  | Direct Department Keys      | C00h onwards |             |

|   |        |                         |                |       |
|---|--------|-------------------------|----------------|-------|
| N | 4[109] | Function Keys           | see Definition | (436) |
| N | 2      | Mark-up / Discount keys | 0 - 10d        | ( 2)  |
| N | 2      | Sales category keys     | 0 - 10d        | ( 2)  |
| N | 2      | Payment Method keys     | 0 - 9d         | ( 2)  |
| N | 1      | Checkout-Slip key       | 0 - 1d         | ( 1)  |
| N | 1      | Collection-Slip key     | 0 - 1d         | ( 1)  |
|   |        |                         |                | ----- |
|   |        |                         |                | (543) |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 248d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

**Examples of Values for Function Key Allocation**

| Decimal value | Function Key                                       |
|---------------|--|
| 3074          | Direct department key (3072) for Department 2 (+2) |
| 1539          | Fixed PLU key (1536) Number 3 (+3)                 |
| 2561          | Tare key (2560) Number 1 (+1)                      |
| 1026          | Mark-up / Discount key (1024) Number 2 (+2)        |

**Access Code: 249****Function: Cash Register Takings – for Cash Register Applicat.**

Entering of cash register takings before requesting a cash register report (Acc. Codes 519/520)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |    |                       |                         |      |
|---|----|-----------------------|-------------------------|------|
| N | 1  | CMD                   | 0d                      | ( 1) |
| N | 5  | Code                  | 249d                    | ( 5) |
| F | 4  | Control               | 0d (write only)         | ( 4) |
| N | 4  | Department            | 0 - 9999d               | ( 4) |
| N | 2  | Scale Number          | 0 - 64d                 | ( 2) |
|   |    |                       |                         |      |
| N | 1  | Payment Method Number | 0 - 9d                  | ( 1) |
|   |    |                       |                         |      |
| N | 11 | Float                 | (without decimal point) | (11) |
| N | 11 | Safe Deposit Value    | (without decimal point) | (11) |
| N | 11 | Till Deposit          | (without decimal point) | (11) |
| N | 11 | Till Payout           | (without decimal point) | (11) |
| N | 11 | Till Balance          | (without decimal point) | (11) |

-----  
(72)**Response**

|   |   |              |           |      |
|---|---|--------------|-----------|------|
| N | 1 | RSP          | 1,3d      | ( 1) |
| N | 5 | Code         | 249d      | ( 5) |
| F | 4 | Control      | Status    | ( 4) |
| N | 4 | Department   | 0 - 9999d | ( 4) |
| N | 2 | Scale Number | 0 - 64d   | ( 2) |

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(16)



## Access Code: 250

### Function: Receipt Printing – Enable-/Disable

Enable or Disable Cash Register Features

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |              |               |       |
|---|---|--------------|---------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d       | ( 1)  |
| N | 5 | Code         | 250d          | ( 5)  |
| F | 4 | Control      | Don't care    | ( 4)  |
| N | 4 | Department   | 0 - 9999d     | ( 4)  |
| N | 2 | Scale Number | 0 - 64d       | ( 2)  |
| N | 1 | On/Off       | 0: off, 1: on | ( 1)  |
|   |   |              |               | ----- |
|   |   |              |               | (17)  |

#### Response

|   |   |              |           |       |
|---|---|--------------|-----------|-------|
| N | 1 | RSP          | 1,3d      | ( 1)  |
| N | 5 | Code         | 250d      | ( 5)  |
| F | 4 | Control      | Status    | ( 4)  |
| N | 4 | Department   | 0 - 9999d | ( 4)  |
| N | 2 | Scale Number | 0 - 64d   | ( 2)  |
|   |   |              |           | ----- |
|   |   |              |           | (16)  |

**Access Code: 251****Function: Lock-/Unlock Scale - Cash Register Application**

To lock the scale when accessing reports or journals

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |    |                   |  |      |
|---|----|-------------------|--|------|
| N | 1  | CMD               | 0d   | ( 1) |
| N | 5  | Code              | 251d   | ( 5) |
| N | 4  | Control           | 0d   | ( 4) |
| N | 4  | Department        | 0d   | ( 4) |
| N | 2  | Scale Number      | 0d   | ( 2) |
| N | 1  | Lock-/Unlock      | 0 - 1d<br><i>0 = unlock</i><br><i>1 = lock</i> | ( 1) |
| C | 20 | Text              | ASCII Text                                     | (20) |
| N | 2  | from Scale Number | 0 - 99d<br><i>0 = lowest scale number</i>      | ( 2) |
| N | 2  | to Scale Number   | 0 - 99d,<br><i>0 = highest scale number</i>    | ( 2) |

-----  
(41)**Response**

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | RSP          | 1,3d   | ( 1) |
| N | 5 | Code         | 251d   | ( 5) |
| F | 4 | Control      | Status | ( 4) |
| N | 4 | Department   | 0d     | ( 4) |
| N | 2 | Scale Number | 0d     | ( 2) |

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(16)

**Access Code: 252****Function: Deletion of Cash Register Sales - Without Deletion Date**

Normally performed after cashing up

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |              |                              |      |
|---|---|--------------|------------------------------|------|
| N | 1 | CMD          | 0d                           | ( 1) |
| N | 5 | Code         | 252d                         | ( 5) |
| F | 4 | Control      | Sales Level / Sales Type     | ( 4) |
|   |   |              | 0000 sales level 1           |      |
|   |   |              | 0100 sales level 2           |      |
|   |   |              | 0200 sales level 3           |      |
|   |   |              | 0300 sales level 4           |      |
|   |   |              | 0000 = cash register sales   |      |
|   |   |              | 0400 = closing Sales revenue |      |
| N | 4 | Department   | 0 - 9999d                    | ( 4) |
| N | 2 | Scale Number | 0 - 64d                      | ( 2) |

-----  
(16)

|   |
|---|
| Note: To automatically record date and time of deletion use Access Code 596 |
|---|

**Response**

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | RSP          | 1,3d   | ( 1) |
| N | 5 | Code         | 252d   | ( 5) |
| F | 4 | Control      | Status | ( 4) |
| N | 4 | Department   | 0d     | ( 4) |
| N | 2 | Scale Number | 0d     | ( 2) |

-----  
(16)

**Access Code: 253****Function: Additional Article Number / assignment of label texts**

Working with article data - Migros Number

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |    |                        |   |      |
|---|----|------------------------|---|------|
| N | 1  | CMD/RSP                | 0d/1,3d   | ( 1) |
| N | 5  | Code                   | 253d  | ( 5) |
| F | 4  | Control                | Access   Key   Status                                     | ( 4) |
| N | 4  | Department             | 1 - 9999d   | ( 4) |
| N | 2  | Scale Number           | 0d  | ( 2) |
|   |    |                        |   |      |
| N | 6  | PLU Number             | 1 - 999999d   | ( 6) |
| C | 12 | Additional Article No. | ASCII character   | (12) |
|   |    |                        | ⇒ 12-characters for the additional article N° (MIGROS-N°) |      |
|   |    |                        | or  |      |
|   |    |                        | ⇒ assignment of 12 label texts (see below)                |      |

-----  
(34)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 253d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 1 - 9999d,            | ( 4) |
| N | 2 | Scale Number | 0d                    | ( 2) |
|   |   |              |                       |      |
| N | 6 | PLU Number   | 1 - 999999d           | ( 6) |

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(22)**Information for the assignment of the 100 additional label texts**

- these functions are supplied from the listed LP/M applications
  - ⇒ LM06, 26 / LM07, 27 / LF03, 05 from version 143
  - ⇒ LE06, 07 from version 134
- 100 additional label texts (at maximum 40 characters) can be created in the data entry mode of the scale (Code 1\* / Stepp 70) or with the TransXXX command 295
- from this 100 texts it is possible to assign at maximum 12 of them to a PLU by using the 12 characters of the additional article number - Code 1\* Stepp 59 or with the TransXXX ID 253
- the information for the text number must be specified with ASCII-characters (Text N°1 = ASCII 049 / Text N°2 = ASCII 050 ... Text N°100 = ASCII 148), where every character of the additional article number assigns the number of the label text to the PLU
- the table below shows which label text number is assigned with which ASCII-character and which character is recorded in the additional article number

| label text number      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ASCII-character number | 049 | 050 | 051 | 052 | 053 | 054 | 055 | 056 | 057 | 058 | 059 | 060 | 061 | 062 | 063 | 064 | 065 | 066 | 067 | 068 |
| recorded character     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | :   | ;   | <   | =   | >   | ?   | @   | A   | B   | C   | D   |

| label text number      | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ASCII-character number | 069 | 070 | 071 | 072 | 073 | 074 | 075 | 076 | 077 | 078 | 079 | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 |
| recorded character     | E   | F   | G   | H   | I   | J   | K   | L   | M   | N   | O   | P   | Q   | R   | S   | T   | U   | V   | W   | X   |

| label text number      | 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ASCII-character number | 089 | 090 | 091 | 092 | 093 | 094 | 095 | 096 | 097 | 098 | 099 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 |
| recorded character     | Y   | Z   | [   | \   | ]   | ^   | _   | `   | a   | b   | c   | d   | e   | f   | g   | h   | i   | j   | k   | l   |

|                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| label text number      | 61  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| ASCII-character number | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 |
| recorded character     | m   | n   | o   | p   | q   | r   | s   | t   | u   | v   | w   | x   | y   | z   | {   |     | }   | ~   |     | Ç   |

|                        |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| label text number      | 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| ASCII-character number | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 |
| recorded character     | ü   | é   | â   | ã   | ä   | å   | ç   | ê   | ë   | è   | ï   | î   | ì   | Ä   | Å   | É   | æ   | Æ   | ô   | ö   |

example:

with the following ID are assigned the listed label texts to PLU **111** from département **1**:

0002530000000100000111äî{:00000000

- ä ⇒ ET1 - label text line 84 assigned
- î ⇒ ET2 - label text line 92 assigned
- { ⇒ ET3 - label text line 75 assigned
- : ⇒ ET4 - label text line 10 assigned
- 0 ⇒ ET5 - no label text assigned
- 0 ⇒ ET6 - no label text assigned
- 0 ⇒ ET7 - no label text assigned
- 0 ⇒ ET8 - no label text assigned
- 0 ⇒ ET9 - no label text assigned
- 0 ⇒ ET10 - no label text assigned
- 0 ⇒ ET11 - no label text assigned
- 0 ⇒ ET12 - no label text assigned

**Access Code: 255****Function: Deletion of Orders, Checkout-Slips and Collection-Slips**

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |              |                             |      |
|---|---|--------------|-----------------------------|------|
| N | 1 | CMD          | 0d                          | ( 1) |
| N | 5 | Code         | 255d                        | ( 5) |
| F | 4 | Control      | 0d (Don't care)             | ( 4) |
| N | 4 | Department   | 0d (Don't care)             | ( 4) |
| N | 2 | Scale Number | 0d (Don't care)             | ( 2) |
|   |   |              |                             |      |
| N | 1 | Receipt Type | 0 - 2d                      | ( 1) |
|   |   |              | 0 = <i>checkout-Slips</i>   |      |
|   |   |              | 1 = <i>collection-Slips</i> |      |
|   |   |              | 2 = <i>crders</i>           |      |

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(17)

**Response**

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | RSP          | 1,3d   | ( 1) |
| N | 5 | Code         | 255d   | ( 5) |
| F | 4 | Control      | Status | ( 4) |
| N | 4 | Department   | 0d     | ( 4) |
| N | 2 | Scale Number | 0d     | ( 2) |

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(16)

**Access Code: 256****Function: Receipt Text - Checkout-Slips / Collection-Slips**

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |    |              |  |       |
|---|----|--------------|--|-------|
| N | 1  | CMD          | 0d   | ( 1)  |
| N | 5  | Code         | 256d   | ( 5)  |
| F | 4  | Control      | Access   Key   Status  | ( 4)  |
| N | 4  | Department   | 0d   | ( 4)  |
| N | 2  | Scale Number | 0d   | ( 2)  |
| N | 1  | Receipt Type | 0 - 1d<br><i>0 = checkout-slip</i><br><i>1 = collection-slip</i> | ( 1)  |
| C | 20 | Text         | ASCII character  | (20)  |
|   |    |              |  | ----- |
|   |    |              |  | (37)  |

**Response**

|   |   |              |  |       |
|---|---|--------------|--|-------|
| N | 1 | RSP          | 1,3d   | ( 1)  |
| N | 5 | Code         | 256d   | ( 5)  |
| F | 4 | Control      | Access   Key   Status  | ( 4)  |
| N | 4 | Department   | 0 - 9999d,   | ( 4)  |
| N | 2 | Scale Number | 0 - 64d  | ( 2)  |
| N | 1 | Receipt Type | 0 - 1d<br><i>0 = checkout-slip</i><br><i>1 = collection-slip</i> | ( 1)  |
|   |   |              |  | ----- |
|   |   |              |  | (17)  |

## Access Code: 260

### Function: Label Types

Working with label types

!!! all x- and y- positions and lengths are to be entered in dots !!!

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |      |  |  |      |
|---|------|--|--|------|
| N | 1    | CMD/RSP                                  | 0d/1,3d  | ( 1) |
| N | 5    | Code                                     | 260d   | ( 5) |
| F | 4    | Control                                  | Access   Key   Status                                | ( 4) |
| N | 4    | Department                               | 0d   | ( 4) |
| N | 2    | Scale Number                             | 0d   | ( 2) |
| N | 2    | Label Definition Number                  | 0 - 3d   | ( 2) |
|   |      |  | 0 ⇒ no label   |      |
|   |      |  | 1–9d ⇒ 3,7-Dot labels                                |      |
|   |      |  | (standard labels for Rohm thermal head)              |      |
|   |      |  | 11-19 ⇒ 4-Dot labels (Mitel-thermal head)            |      |
|   |      |  | 21-29 ⇒ 8-Dot labels                                 |      |
| N | 2    | Rewind                                   | 0 - 80d,   | ( 2) |
| N | 3    | Label Width                              | 1 - 192d   | ( 3) |
| N | 3    | Label Length                             | 1 - 384d   | ( 3) |
| N | 1    | Print Direction                          | 0 - 1d   | ( 1) |
|   |      |  | 0 = readable   |      |
|   |      |  | 1 = reverse  |      |
|   |      | <b>Graphic Objects</b>                   |  |      |
| N | 1[5] | Graphic Object Type                      | 0 - 6d   | ( 5) |
|   |      |  | 0 = don't print                                      |      |
|   |      |  | 1 = print horizontal line                            |      |
|   |      |  | 2 = print vertical line                              |      |
|   |      |  | 3 = print rectangular frame                          |      |
|   |      |  | 4 = print circle                                     |      |
|   |      |  | 5 = print diagonal                                   |      |
|   |      |  | 6 = print ellipse                                    |      |
| N | 3[5] | G. x-Position                            | 1 - 192d   | (15) |
| N | 3[5] | G. y-Position                            | 1 - 384d   | (15) |
| N | 1[5] | G. Line Thickness                        | 1 - 8d   | ( 5) |
| N | 3[5] | G. Length                                | 1 - 192d or Radius                                   | (15) |
| N | 3[5] | G. Height                                | 0 - 384d, 0 = Line                                   | (15) |
| N | 1[5] | G. Line Style                            | 0d = continuous line                                 | ( 5) |
|   |      |  | 1d = dashed line                                     |      |
|   |      | <b>PLU/Ingredients</b>                   |  |      |
| N | 1    | PI Switch                                | 0 = no Text  | ( 1) |
|   |      |  | 1 = textfield is rectangular                         |      |
|   |      |  | 2 = textfield with rectangular border, left aligned  |      |
|   |      |  | 3 = textfield with rectangular border, right aligned |      |
|   |      |  | 4 = textfield with rectangular border, entire length |      |
| N | 2    | PI Line Spacing                          | 0 - nnd  | ( 2) |
| N | 1    | PI Print Direction                       | 0d=0°, 1d=90°, 3d=270°                               | ( 1) |
| N | 3    | PI x-Position                            | 1 - 192d   | ( 3) |
| N | 3    | PI y-Position                            | 1 - 384d   | ( 3) |
| N | 3    | PI Field Height                          | 1 - 384d   | ( 3) |
| N | 3    | PI Field Width                           | 1 - 192d   | ( 3) |
|   |      | <b>PLU/Ingredient/Rectangular Border</b> |  |      |
| N | 3    | PIR x-Position                           | 1 - 192d   | ( 3) |
| N | 3    | PIR y-Position                           | 1 - 384d   | ( 3) |
| N | 3    | PIR Field Height                         | 0 - 384d   | ( 3) |
| N | 3    | PIR Field Width                          | 0 - 384d   | ( 3) |
|   |      | <b>Organisation Name Text</b>            |  |      |
| N | 1    | ONT print direction                      | 0d=0°, 1d=90°, 3d=270°                               | ( 1) |
| N | 3    | ONT x-Position                           | 0 - 192d, 0 = no ONT                                 | ( 3) |
| N | 3    | ONT y-Position                           | 1 - 384d   | ( 3) |
| N | 3    | ONT Field Height                         | 1 - 384d   | ( 3) |
| N | 3    | ONT Field Width                          | 1 - 192d   | ( 3) |



|   |       |                                |                                 |       |
|---|-------|--------------------------------|---------------------------------|-------|
| <b>Advertising Text</b>                 |       |                                |                                 |       |
| N                                       | 1     | <b>AT</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 3     | <b>AT</b> x-Position           | 0 - 192d, 0 = no <b>AT</b>      | ( 3)  |
| N                                       | 3     | <b>AT</b> y-Position           | 1 - 384d                        | ( 3)  |
| N                                       | 3     | <b>AT</b> Field Height         | 1 - 384d                        | ( 3)  |
| N                                       | 3     | <b>AT</b> Field Width          | 1 - 192d                        | ( 3)  |
| <b>Miscellaneous Text</b>               |       |                                |                                 |       |
| N                                       | 2[4]  | <b>MT</b> Font Size            | 0 - 20d, 0 = no <b>MT</b>       | ( 8)  |
| N                                       | 1[4]  | <b>MT</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 4)  |
| N                                       | 3[4]  | <b>MT</b> x-Position           | 1 - 192d                        | (12)  |
| N                                       | 3[4]  | <b>MT</b> y-Position           | 1 - 384d                        | (12)  |
| C                                       | 30[4] | <b>MT</b> Text                 | ASCII characters                | (120) |
| <b>Dates</b>                            |       |                                |                                 |       |
| N                                       | 2[3]  | <b>DA</b> Font Size            | 0 - 20d, 0 = no Date            | ( 6)  |
| N                                       | 1[3]  | <b>DA</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 3)  |
| N                                       | 3[3]  | <b>DA</b> x-Position           | 0 - 192d                        | ( 9)  |
| N                                       | 3[3]  | <b>DA</b> y-Position           | 0 - 384d                        | ( 9)  |
| <i>x=y=0 = one date after the other</i> |       |                                |                                 |       |
| <b>Date Texts</b>                       |       |                                |                                 |       |
| N                                       | 1[3]  | <b>DAT</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°          | ( 3)  |
| N                                       | 3[3]  | <b>DAT</b> x-Position          | 0 - 192d, 0 = no <b>DAT</b>     | ( 9)  |
| N                                       | 3[3]  | <b>DAT</b> y-Position          | 1 - 384d                        | ( 9)  |
| N                                       | 3[3]  | <b>DAT</b> Field Height        | 1 - 384d                        | ( 9)  |
| N                                       | 3[3]  | <b>DAT</b> Field Width         | 1 - 192d                        | ( 9)  |
| <b>Date Strike-Through Fields (X)</b>   |       |                                |                                 |       |
| N                                       | 1[3]  | <b>DAX</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°          | ( 3)  |
| N                                       | 3[3]  | <b>DAX</b> x-Pos               | 1 - 192d, 0=do not cross-out    | ( 9)  |
| N                                       | 3[3]  | <b>DAX</b> y-Position          | 1 - 384d                        | ( 9)  |
| N                                       | 3[3]  | <b>DAX</b> Field Height        | 1 - 384d                        | ( 9)  |
| N                                       | 3[3]  | <b>DAX</b> Field Width         | 1 - 192d                        | ( 9)  |
| <b>EAN Code</b>                         |       |                                |                                 |       |
| N                                       | 2     | <b>EAN</b> Code Number         | 0 - 32d, 0 = no <b>EAN</b>      | ( 2)  |
| N                                       | 3     | <b>EAN</b> Field Height        | 1 - 384d                        | ( 3)  |
| N                                       | 3     | <b>EAN</b> Field Width         | 0d = Standard, 1d = wide        | ( 3)  |
| N                                       | 1     | <b>EAN</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 3     | <b>EAN</b> x-Position          | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>EAN</b> y-Position          | 1 - 384d                        | ( 3)  |
| <b>Weight</b>                           |       |                                |                                 |       |
| N                                       | 2     | <b>Weight</b> Font Size        | 0 - 20d, 0 = no Weight          | ( 2)  |
| N                                       | 1     | <b>Weight</b> Print Direction  | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 2     | <b>Weight</b> Value (numeric)  | 1 - 10d                         | ( 2)  |
| N                                       | 3     | <b>Weight</b> x-Position       | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>Weight</b> y-Position       | 1 - 384d                        | ( 3)  |
| <b>Weight-Unit</b>                      |       |                                |                                 |       |
| N                                       | 2     | <b>WU</b> Font Size            | 0 - 20d, 0 = no Weight Unit     | ( 2)  |
| N                                       | 1     | <b>WU</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 3     | <b>WU</b> x-Position           | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>WU</b> y-Position           | 1 - 384d                        | ( 3)  |
| C                                       | 5     | <b>WU</b> Text                 | ASCII characters                | ( 5)  |
| <b>Base Price</b>                       |       |                                |                                 |       |
| N                                       | 2     | <b>BP</b> Font Size            | 0 - 20d, 0 = no Base Price      | ( 2)  |
| N                                       | 1     | <b>BP</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 2     | <b>BP</b> Number of Characters | 1 - 10d                         | ( 2)  |
| N                                       | 3     | <b>BP</b> x-Position           | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>BP</b> y-Position           | 1 - 384d                        | ( 3)  |
| <b>Base Price Unit</b>                  |       |                                |                                 |       |
| N                                       | 2     | <b>BPU</b> font size           | 0 - 20d, 0 = no Base Price Unit | ( 2)  |
| N                                       | 1     | <b>BPU</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 3     | <b>BPU</b> x-Position          | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>BPU</b> y-Position          | 1 - 384d                        | ( 3)  |
| C                                       | 8     | <b>BPU</b> Currency            |                                 | ( 8)  |
| <b>Amount Text</b>                      |       |                                |                                 |       |
| N                                       | 2     | <b>AT</b> Font Size            | 0 - 20d, 0 = no Amount Text     | ( 2)  |
| N                                       | 1     | <b>AT</b> Print Direction      | 0d=0°, 1d=90°, 3d=270°          | ( 1)  |
| N                                       | 2     | <b>AT</b> No. of Characters    | 1 - 10d                         | ( 2)  |
| N                                       | 3     | <b>AT</b> x-Position           | 1 - 192d                        | ( 3)  |
| N                                       | 3     | <b>AT</b> y-Position           | 1 - 384d                        | ( 3)  |

|                            |       |                                    |                                   |       |
|----------------------------|-------|------------------------------------|-----------------------------------|-------|
| <b>Amount Unit</b>         |       |                                    |                                   |       |
| N                          | 2     | <b>AU</b> Font Size                | 0 - 20d, 0 = no Amount Unit       | ( 2)  |
| N                          | 1     | <b>AU</b> Print Direction          | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 3     | <b>AU</b> x-Position               | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>AU</b> y-Position               | 1 - 384d                          | ( 3)  |
| C                          | 5     | <b>AU</b> No. of Characters        |                                   | ( 5)  |
| <b>Nutri Value</b>         |       |                                    |                                   |       |
| N                          | 2     | <b>NV</b> Font Size                | 0 - 20d, 0 = no Nutri Value       | ( 2)  |
| N                          | 1     | <b>NV</b> Print Direction          | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>NV</b> No. of Characters        | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>NV</b> x-Position               | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>NV</b> y-Position               | 1 - 384d                          | ( 3)  |
| <b>Nutri Value Unit</b>    |       |                                    |                                   |       |
| N                          | 2     | <b>NVU</b> Font Size               | 0 - 20d, 0 = no <b>NVU</b>        | ( 2)  |
| N                          | 1     | <b>NVU</b> Print Direction         | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 3     | <b>NVU</b> x-Position              | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>NVU</b> y-Position              | 1 - 384d                          | ( 3)  |
| C                          | 8     | <b>NVU</b> No. of Characters       | ASCII characters                  | ( 8)  |
| <b>PLU Number</b>          |       |                                    |                                   |       |
| N                          | 2     | <b>PLU</b> Font Size               | 0 - 20d, 0 = no <b>PLU</b> Number | ( 2)  |
| N                          | 1     | <b>PLU</b> Print Direction         | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>PLU</b> No. of Characters       | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>PLU</b> x-Position              | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>PLU</b> y-Position              | 1 - 384d                          | ( 3)  |
| <b>Scale Number</b>        |       |                                    |                                   |       |
| N                          | 2     | <b>Scale Num</b> Font Size         | 0 - 20d, 0 = no <b>Scale Num</b>  | ( 2)  |
| N                          | 1     | <b>Scale Num</b> Print Direction   | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>Scale Num</b> No. of Characters | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>Scale Num</b> x-Position        | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>Scale Num</b> y-Position        | 1 - 384d                          | ( 3)  |
| <b>Receipt Number</b>      |       |                                    |                                   |       |
| N                          | 2     | <b>Rec Num</b> Font Size           | 0 - 20d, 0 = no <b>Rec Num</b>    | ( 2)  |
| N                          | 1     | <b>Rec Num</b> Print Direction     | 0d=0°, 1d=90°, 3d=270°            | ( 1)  |
| N                          | 2     | <b>Rec Num</b> No. of characters   | 1 - 10d                           | ( 2)  |
| N                          | 3     | <b>Rec Num</b> x-Position          | 1 - 192d                          | ( 3)  |
| N                          | 3     | <b>Rec Num</b> y-Position          | 1 - 384d                          | ( 3)  |
| <b>Miscellaneous Value</b> |       |                                    |                                   |       |
| N                          | 2[4]  | <b>MV</b> Font Size                | 0 - 20d, 0 = no <b>MV</b>         | ( 8)  |
| N                          | 1[4]  | <b>MV</b> Print Direction          | 0d=0°, 1d=90°, 3d=270°            | ( 4)  |
| N                          | 3[4]  | <b>MV</b> x-Position               | 1 - 192d                          | (12)  |
| N                          | 3[4]  | <b>MV</b> y-Position               | 1 - 384d                          | (12)  |
| C                          | 10[4] | <b>MV</b> Text                     | ASCII characters                  | (40)  |
|                            |       |                                    |                                   | ----- |
|                            |       |                                    |                                   | (647) |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |                         |                       |       |
|---|---|-------------------------|-----------------------|-------|
| N | 1 | CMD/RSP                 | 0d/1,3d               | ( 1)  |
| N | 5 | Code                    | 260d                  | ( 5)  |
| F | 4 | Control                 | Access   Key   Status | ( 4)  |
| N | 4 | Department              | 0d                    | ( 4)  |
| N | 2 | Scale Number            | 0d                    | ( 2)  |
|   |   |                         |                       |       |
| N | 2 | Label Definition Number | 0 - 3d                | ( 2)  |
|   |   |                         |                       | ----- |
|   |   |                         |                       | (18)  |

**Access Code: 261****Function: Keyboard Configuration - Cash Register Application**

## Working with Keyboard Function Allocations

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |       |                    |  |      |
|---|-------|--------------------|--|------|
| N | 1     | CMD/RSP            | 0d/1,3d  | ( 1) |
| N | 5     | Code               | 261d   | ( 5) |
| F | 4     | Control            | Access   Key   Status  | ( 4) |
| N | 4     | Department         | 0 - 9999d  | ( 4) |
| N | 2     | Scale Number       | 0 - 64d  | ( 2) |
| N | 3     | Keyboard Type      | 0 - 9d<br>4d = T100<br>5d = T79<br>6d = T98<br>7d = T104<br>8d = T82<br>9d = T144<br>13d = bC, bPro T99 ⇒ bC-U2<br>15d = bC, bPro T100 ⇒ bC-U3<br>16d = bC, bPro T56 ⇒ bC-C2<br>17d = bC, bPro T86 ⇒ bC-H2 | ( 3) |
| N | 3     | Fixed keys         | 0 - 109d   | ( 3) |
| N | 3     | Operator keys      | 2 - 70d  | ( 3) |
| N | 3     | Tare keys          | 0 - 10d  | ( 3) |
| N | 3     | Department keys    | 0 - 16d  | ( 3) |
| N | 4[16] | Department numbers | 0 - 9999d  | (64) |
| F | 4     | Function keys      | see Definition   | ( 4) |

*Definition table for function key allocation*

| Bit | Meaning                                     | Value            | Remarks |
|-----|---|------------------|---------|
| 0   | Void key                                    | 0 = no / 1 = yes |         |
| 1   | Change Returned key                         | 0 = no / 1 = yes |         |
| 2   | Price 2 Key (II)                            | 0 = no / 1 = yes | see J*  |
| 3   | Department Key                              | 0 = no / 1 = yes | see J*  |
| 4   | X Key (i.e. multiply)                       | 0 = no / 1 = yes |         |
| 5   | Article Group Key                           | 0 = no / 1 = yes | see J*  |
| 6   | Minus Key                                   | 0 = no / 1 = yes |         |
| 7   | Plus Key                                    | 0 = no / 1 = yes |         |
| 8   | Basket Key (customer-Nr.)                   | 0 = no / 1 = yes | see J*  |
| 9   | Open Base Price Key (#)                     | 0 = no / 1 = yes |         |
| 10  | Prepacking-Mode-Key                         | 0 = no / 1 = yes | see J*  |
| 11  | Secondary Currency Key                      | 0 = no / 1 = yes | see J*  |
| 12  | Delivery Note Key                           | 0 = no / 1 = yes | see J*  |
| 13  | Key for manual weight-value (Wholesale-Key) | 0 = no / 1 = yes | see J*  |
| 14  | EC-Cash Key                                 | 0 = no / 1 = yes | see J*  |
| 15  | Short-Code Key                              | 0 = no / 1 = yes | see J*  |

J\* In MIRA scales, these keys are to be programmed as special function keys

N 4[109] Special Function Keys

(436)

Definition table for special function key allocation

| Decimal value | Meaning                             | Hex value    | Remark           |
|---------------|-------------------------------------|--------------|------------------|
| 0000 - 0511   | Don't care (ASCII chars)            | 000h - 1FFh  |                  |
| 0512 - 1023   | Fixed Function Keys                 | 200h - 3FFh  |                  |
| 1024 onwards  | Programmable Function Keys          | 400h onwards |                  |
| 1024 – 1033   | Mark-up / Discount key              | 400h – 409h  |                  |
| 1088 – 1196   | Payment Method key                  | 440h – 448h  |                  |
| 1152 – 1161   | Sales Category key                  | 480h – 489h  |                  |
| 1216 – 1279   | Miscellaneous function keys         | 4C0h - 4FFh  |                  |
| 1216          | Checkout-Slip key                   | 4C0h         |                  |
| 1217          | Collection-Slip key                 | 4C1h         |                  |
| 1218          | Basket key                          | 4C2h         | (only MIRA)      |
| 1219          | 2 <sup>nd</sup> Currency Key        | 4C3h         |                  |
| 1220          | Delivery Note key                   | 4C4h         | (only MIRA)      |
| 1221          | Manual weight input (Wholesale Key) | 4C5h         | (only MIRA)      |
| 1222          | e cash Key                          | 4C6h         | (only MIRA)      |
| 1232          | Department Key                      | 4D0h         | (only MIRA)      |
| 1233          | Article Group Key                   | 4D1h         | (only MIRA)      |
| 1234          | 2 <sup>nd</sup> Price Key (II)      | 4D2h         | (only MIRA)      |
| 1225          | Price-Level key 1                   | 4C9h         | (only MIRA)      |
| 1226          | Price-Level key 2                   | 4CAh         | (only MIRA)      |
| 1227          | Till deposit key                    | 4CBh         | (only MIRA LF03) |
| 1228          | Till payout key                     | 4CCh         | (only MIRA LF03) |
| 1229          | Temporary label                     | 4CDh         | see *1)          |
| 1230          | Matchcode key                       | 4CEh         | see *1)          |
| 1231          | INET-Mode                           | 4CFh         | see *2)          |
| 1232          | department-key „A“                  | 4D0h         | (only LP/M)      |
| 1233          | article-group „G“                   | 4D1h         | (only LP/M)      |
| 1234          | second price key II                 | 4D2h         | (only LP/M)      |
| 1235          | Sales mode key                      | 4D3h         | see *3)          |
| 1236          | Rewrap mode key                     | 4D3h         | see *3)          |
| 1237          | Inventory mode key                  | 4D3h         | see *3)          |
| 1249 – 1258   | Direct Text keys                    | 4E1h – 4EAh  |                  |
| 1536 onwards  | PLU Fixed keys                      | 600h onwards |                  |
| 2048 onwards  | Operator keys                       | 800h onwards |                  |
| 2560 onwards  | Tare keys                           | A00h onwards |                  |
| 3072 onwards  | Direct Department keys              | C00h onwards |                  |

Use decimal values of this table in the TransXXX-command

\*1) ⇒ only with LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137

\*2) ⇒ only for LM06, 26, 07, 27 from V150 / LF 03, 05 from V150 / LE06, 07 from V141

\*3) ⇒ only for LM06, 26, 07, 27 from V157 / LF 03, 05 from V157 / LE06, 07 from V148 / bC/bPro ab V113

|   |   |                         |              |
|---|---|-------------------------|--------------|
| N | 2 | Mark-up / Discount Keys | 0 - 10d ( 2) |
| N | 2 | Don't care              | ( 2)         |
| N | 2 | Don't care              | ( 2)         |
| N | 1 | Don't care              | ( 1)         |
| N | 1 | Don't care              | ( 1)         |
|   |   |                         | -----        |
|   |   |                         | (543)        |

## Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 261d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

**Access Code: 262****Function: Enabling and Disabling Mark-ups / Discounts / Discounts**

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |   |                      |                       |      |
|---|---|----------------------|-----------------------|------|
| N | 1 | CMD/RSP              | 0d/1,3d               | ( 1) |
| N | 5 | Code                 | 262d                  | ( 5) |
| F | 4 | Control              | Access   Key   Status | ( 4) |
| N | 4 | Department           | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number         | 0 - 64d               | ( 2) |
| F | 4 | User Configuration 3 | Flag                  | ( 4) |

| Bit  | Meaning            | Value                    | Remarks |
|------|--------------------|--------------------------|---------|
| 0    | Mark-up / Discount | 0: disabled / 1: enabled |         |
| 2-15 | Don't care         |                          |         |

-----  
(20)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 262d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |

-----  
(16)

## Access Code: 266

### Function: Scale Circuit Selection (only for Infoline LK05...)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |   |               |   |      |
|---|---|---------------|---|------|
| N | 1 | CMD/RSP       | 0d/1,3d   | ( 1) |
| N | 5 | Code          | 266d  | ( 5) |
| F | 4 | Control       | Access   Key   Status<br>(access is only create/modify -> 0)  | ( 4) |
| N | 4 | Department    | 0d  | ( 4) |
| N | 2 | Scale Number  | 0d  | ( 2) |
| N | 1 | Scale Circuit | 0 - 8d<br>0 = for mixed scale groups, all scale circuits<br>0 = L2 in pure L2 Network<br>1 = L2 in mixed network with<br>Infoline or MIRA<br>4 = only MIRA<br>9 = only Infoline | ( 1) |

-----  
(17)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |   |      |
|---|---|--------------|---|------|
| N | 1 | CMD/RSP      | 0d/1,3d   | ( 1) |
| N | 5 | Code         | 266d  | ( 5) |
| F | 4 | Control      | Access   Key   Status<br>(Access only read direct -> 2) | ( 4) |
| N | 4 | Department   | 0d  | ( 4) |
| N | 2 | Scale Number | 0d  | ( 2) |

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(16)

#### Note:

This Access Code has to be used only, when in a network of mixed scale circuits (L2 and MIRA scales) the RS232 data transfer cable is connected to the InfoLine. **The separation of the scale circuits of L2 and MIRA scales has to be done with a repeater.** The Infoline has to be cabled in one of the scale circuits.

Generally are the different scale types in different scale circuits (L2 – Circuit 1 / LP/M – Circuit 4). If the RS232-cable is connected to a scale, the communication only happens to the scales of this scale circuit and the datas are not sent to the scales of the other scale circuit.

**To be able to send the datas to both scale circuits the RS232 cable has to be connected to the InfoLine.**

The IDs from the sectors 400, 500 und 800 are always sent to all scale circuits (L2 und LP) because the current setting of ID 266 is for them of no consequence.

The IDs of block 200 apply the following rules:

- Commands which can be used only of one scale type (scale circuit) are always sent only to the scales of this scale circuit (1 ⇒ L2 und 4 ⇒ LP) independent of the current setting of command 266.
- Commands which can be used from both scale circuits can be directed by the current setting of the InfoLine with command 266 to both or only one scale circuit. Infoline then functions as a "shunt" (ScaleCircuit 0 ⇒ L2 and LP / ScaleCircuit 1 ⇒ only L2 / ScaleCircuit 4 ⇒ only LP).
- The setting of the InfoLine-shunt is valid until it is changed with command 266.

|               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Access Code   | 200   | 201   | 202   | 203   | 204   | 205   | 206   | 207   | 208   | 209   | 210   | 211   | 212   | 213   | 214   | 215   | 216   | 217   | 218   | 219   | 220   | 221   | 222   | 223   |
| scale circuit | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 |

|               |       |     |     |     |     |       |     |       |       |       |       |       |       |       |     |       |       |       |       |       |       |       |       |       |
|---------------|-------|-----|-----|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Access Code   | 224   | 225 | 226 | 227 | 228 | 229   | 230 | 231   | 233   | 235   | 236   | 237   | 238   | 239   | 242 | 243   | 244   | 245   | 246   | 248   | 249   | 250   | 251   | 252   |
| scale circuit | 0,1,4 | 1   | 1   | 1   | 1   | 0,1,4 | 1   | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 1   | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 |

|               |       |       |       |     |     |     |     |     |       |       |     |     |     |       |     |       |     |     |       |     |       |       |       |       |
|---------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-----|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-------|-------|-------|
| Access Code   | 253   | 255   | 256   | 260 | 261 | 262 | 266 | 267 | 269   | 270   | 271 | 272 | 273 | 274   | 275 | 276   | 277 | 278 | 279   | 280 | 283   | 285   | 287   | 288   |
| scale circuit | 0,1,4 | 0,1,4 | 0,1,4 | 4   | 4   | 4   | 9   | 1   | 0,1,4 | 0,1,4 | --- | --- | --- | 0,1,4 | 4   | 0,1,2 | 4   | 4   | 0,1,4 | 4   | 0,1,4 | 0,1,4 | 0,1,4 | 0,1,4 |

|               |       |     |     |       |       |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------|-------|-----|-----|-------|-------|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Access Code   | 289   | 290 | 291 | 292   | 293   | 294 | 295 | 296 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| scale circuit | 0,1,4 | 4   | 4   | 0,1,4 | 0,1,4 | 4   | 4   | 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Access Code: 267

### Function: EAN Codes

#### Working with EAN Codes

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |    |                 |                        |       |
|---|----|-----------------|------------------------|-------|
| N | 1  | CMD/RSP         | 0d/1,3d                | ( 1)  |
| N | 5  | Code            | 267d                   | ( 5)  |
| F | 4  | Control         | Access   Key   Status  | ( 4)  |
| N | 4  | Department      | 0 - 9999d              | ( 4)  |
| N | 2  | Scale Number    | 0 - 64d                | ( 2)  |
| N | 2  | EAN Code Number | 1 - 32d                | ( 2)  |
| N | 1  | EAN Type        | 0 - 8d                 | ( 1)  |
| C | 48 | EAN Code        | (see EAN Code Details) | (48)  |
|   |    |                 |                        | ----- |
|   |    |                 |                        | (67)  |

#### EAN Code Details

| Legends of EAN Values             | Number of characters |
|-----------------------------------|----------------------|
| C = Check digit                   | 1                    |
| N = Running receipt number        | 4                    |
| P = PLU number                    | 4                    |
| W = Article Group number          | 3                    |
| A = Article number                | 4/5                  |
| B = Amount                        | 5/6                  |
| Q = Quantity                      | 4/5                  |
| Q = Weight value from load-cell   | 4/5                  |
| R = Weight value 3 Decimal places | 4/5                  |
| S = Weight value 2 Decimal places | 4/5                  |
| T = Weight value 3 Decimal places | 4/5                  |
| 0-9 Digits                        | 12                   |

#### Possible Placing of EAN Value in a Barcode

| EAN Position | Possible Values    |
|--------------|--------------------|
| 1 to 6       | 0-9, A, W, N, P,   |
| 7 or 8       | C                  |
| 8 to 12      | B, Q, R, S, T, 0-9 |
| 13           | C                  |

For EAN128 legend, see L2 Application Handbook 03 (Pre-Pack 2)

#### Command (delete or read) / Response (create, modify or delete)

|   |   |                 |                       |       |
|---|---|-----------------|-----------------------|-------|
| N | 1 | CMD/RSP         | 0d/1,3d               | ( 1)  |
| N | 5 | Code            | 267d                  | ( 5)  |
| F | 4 | Control         | Access   Key   Status | ( 4)  |
| N | 4 | Department      | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number    | 0 - 64d               | ( 2)  |
| N | 2 | EAN Code Number | 1 - 32d               | ( 2)  |
|   |   |                 |                       | ----- |
|   |   |                 |                       | (18)  |

## Access Code: 269

### Function: Direct Text Number

#### Working with Article Data – Allocating Direct Texts to PLUs

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 269d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0d                    | ( 2) |

|   |        |                            |             |      |
|---|--------|----------------------------|-------------|------|
| N | 6      | PLU Number                 | 1 - 999999d | (6)  |
| C | 2 [10] | Direct Text<br>line nubmer | 0 - 99d     | (20) |

*the line numbers of selected text in  
columns 1 to 10 consecutively  
(see Note)*

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(42)

#### Note on Direct text Numbers:

Structure of the Direct Text table:

| Column | 1    | 2    | 3    | ..... | 10   |
|--------|------|------|------|-------|------|
| Line 0 | Text | Text | Text | ..... | Text |
| 1      | Text | Text | Text | ..... | Text |
| 2      | Text | Text | Text | ..... | Text |
| 3      | Text | Text | Text | ..... | Text |
| ...    | Text | Text | Text | ..... | Text |
| 99     | Text | Text | Text | ..... | Text |

*Direct Texts are entered into a 10-column table.*

*Line 0 contains the "heading" of the respective column. 99 different texts can be entered in lines 1 to 99 of each column.*

*When using Access Code 269 to refer to text in the table, the corresponding line number of the selected text in each of the 10 columns is quoted.*

*E.g. To refer to the above text in the table highlighted in grey: 029901...03 is quoted*

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |     |
|---|---|--------------|-----------------------|-----|
| N | 1 | CMD/RSP      | 0d/1,3d               | (1) |
| N | 5 | Code         | 269d                  | (5) |
| F | 4 | Control      | Access   Key   Status | (4) |
| N | 4 | Department   | 0 - 9999d             | (4) |
| N | 2 | Scale Number | 0d                    | (2) |

|   |   |            |             |     |
|---|---|------------|-------------|-----|
| N | 6 | PLU Number | 1 - 999999d | (6) |
|---|---|------------|-------------|-----|

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(22)



## Access Code: 270

### Function: Direct Text Table (Line by Line)

Working with Direct Text - creating Direct Text

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |         |                             |   |       |
|---|---------|-----------------------------|---|-------|
| N | 1       | CMD/RSP                     | 0d/1,3d   | ( 1)  |
| N | 5       | Code                        | 270d  | ( 5)  |
| F | 4       | Control                     | Access   Key   Status   | ( 4)  |
| N | 4       | Department                  | 0 – 9999d   | ( 4)  |
|   |         |                             | <i>LP ⇒ for LM/LF from version 137 and<br/>LE from version 128<br/>L2 ⇒ for LL from version 430, LL27 Vers. 110</i> |       |
| N | 2       | Scale Number                | 0   | ( 2)  |
| N | 2       | Line Number                 | 0 - 99d   | ( 2)  |
| C | 20 [10] | Direct Text ASCII character |   | (200) |
|   |         |                             | <i>the line numbers of selected text in<br/>columns 1 to 10 consecutively<br/>(see Code 269)</i>                    |       |
|   |         |                             |   | ----- |
|   |         |                             |   | (218) |

Note on Direct text Numbers:

Structure of the Direct Text Table:

| Column | 1 | 2    | 3    | ..... | 10    |      |
|--------|---|------|------|-------|-------|------|
| Line   | 0 | Text | Text | Text  | ..... | Text |
| 1      |   | Text | Text | Text  | ..... | Text |
| 2      |   | Text | Text | Text  | ..... | Text |
| 3      |   | Text | Text | Text  | ..... | Text |
| ...    |   | Text | Text | Text  | ..... | Text |
| 99     |   | Text | Text | Text  | ..... | Text |

*Each line contains the text from the 10 columns, at 20 characters per column*

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |   |       |
|---|---|--------------|---|-------|
| N | 1 | CMD/RSP      | 0d/1,3d   | ( 1)  |
| N | 5 | Code         | 270d  | ( 5)  |
| F | 4 | Control      | Access   Key   Status   | ( 4)  |
| N | 4 | Department   | 0 – 9999d   | ( 4)  |
|   |   |              | <i>LP ⇒ for LM/LF from version 137 and<br/>LE from version 128<br/>L2 ⇒ for LL from version 430, LL27 Vers. 110</i> |       |
| N | 2 | Scale Number | 0   | ( 2)  |
| N | 4 | Line Number  | 0 - 99d   | ( 2)  |
|   |   |              |   | ----- |
|   |   |              |   | (18)  |

*Direct-Texts with the numbers 1 to 229 can be defined with command 301*

## Access Code: 271

### Function: Accounts (Account Number)

Working with accounts - Creating an Account Number

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |        |                               |  |               |
|---|--------|-------------------------------|--|---------------|
| N | 1      | CMD/RSP                       | 0d/1,3d  | ( 1)          |
| N | 5      | Code                          | 271d   | ( 5)          |
| F | 4      | Control                       | Access   Key   Status  | ( 4)          |
| N | 4      | Department                    | 0 - 9999d  | ( 4)          |
| N | 2      | Scale Number                  | 0 - 64d  | ( 2)          |
| C | 20     | Account Description           | ASCII character alphanumeric   | (20)          |
| N | 3      | Sales Level                   | 0 - Max.-Account (0-100d)  | ( 3)          |
| N | 2 [10] | Direct Text Numbers           | 0 - 99d<br><i>the line numbers of selected text in<br/>columns 1 to 10 consecutively<br/>(see Code 269)</i>  | (20)          |
| N | 1      | Direct Text of account or PLU | <i>0 = direct text of account<br/>1 = direct text of PLU</i>   | (1)           |
| N | 1      | Account Status                | 0 - 2d<br><i>0 = inactive<br/>1 = active (read only)<br/>2 = pause (read only)<br/>- 2 -&gt; account selected but not active<br/>- status may be &gt; 0 for only one account !</i> | (1)           |
|   |        |                               |  | -----<br>(59) |

#### Command (read) / Response (create, modify)

|   |    |                     |  |               |
|---|----|---------------------|--|---------------|
| N | 1  | CMD/RSP             | 0d/1,3d  | ( 1)          |
| N | 5  | Code                | 271d   | ( 5)          |
| F | 4  | Control             | Access   Key   Status<br><i>read only<br/>delete see Access Code 273</i> | ( 4)          |
| N | 4  | Department          | 0 - 9999d  | ( 4)          |
| N | 2  | Scale Number        | 0 - 64d  | ( 2)          |
| C | 20 | Account Description | ASCII characters alphanumeric  | (20)          |
|   |    |                     |  | -----<br>(36) |

#### Note on Account Description:

When using the command to read accounts and "read equal" (2) is not used, the account description entered is evaluated with the first character of the corresponding alphanumeric character sequence.

| Value of Account Description | Accounts Evaluated   |
|------------------------------|--|
| 000000....                   | all accounts   |
| 100000....                   | all accounts that begin with ASCII character <b>1</b> or higher  |
| 500000....                   | all accounts that begin with ASCII character <b>5</b> or higher<br>⇒ no accounts that begin with a number < <b>5</b>               |
| A00000....                   | all accounts that begin with ASCII character <b>A</b> or higher<br>⇒ no accounts that begin with a number                          |
| a00000....                   | all accounts that begin with ASCII character <b>a</b> or higher<br>⇒ no accounts that begin with a number or a letter              |
| App000....                   | all accounts that begin with ASCII character <b>App</b> or higher<br>⇒ no accounts that begin with a value < <b>App</b> (e.g. Apo) |

## Access Code: 272

### Function: Accounts - Sales Levels

#### Working with Accounts

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read)

|   |        |  |   |               |
|---|--------|--|---|---------------|
| N | 1      | CMD/RSP                                | 0d/1,3d   | ( 1)          |
| N | 5      | Code                                   | 272d  | ( 5)          |
| F | 4      | Control                                | Access   Key   Status   | ( 4)          |
| N | 4      | Department                             | 0 – 9999d   | ( 4)          |
| N | 2      | Scale Number                           | 0 – 64d   | ( 2)          |
| N | 3      | Sales Level                            | 0 - Max.-Account (0-100d)   | ( 1)          |
| C | 20     | Account Number.                        | ASCII character alphanumeric  | (20)          |
| N | 1      | Sales Level                            | 0d  | ( 1)          |
| N | 2 [10] | Direct Text numbers                    | 0 - 99d<br><i>the line numbers of selected text in<br/>columns 1 to 10 consecutively<br/>(see Code 269)</i>   | (20)          |
| N | 1      | Direct Text PLU or Account description | <i>0 = direct text of PLU<br/>1 = direct text of Account</i>  | (1)           |
| N | 1      | Account-Status                         | 0 - 2d<br><i>0 = inactive<br/>1 = active (read only)<br/>2 = Paused (read only)<br/>- 2 -&gt; account selected but not active<br/>- status may only be &gt; 0 for one account !</i> | (1)           |
|   |        |  |   | -----<br>(60) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                               |               |
|---|---|--------------|-------------------------------|---------------|
| N | 1 | CMD/RSP      | 0d/1,3d                       | ( 1)          |
| N | 5 | Code         | 272d                          | ( 5)          |
| F | 4 | Control      | Access   Key   Status         | ( 4)          |
| N | 4 | Department   | 0 – 9999d                     | ( 4)          |
| N | 2 | Scale Number | 0 – 64d                       | ( 2)          |
| N | 3 | Sales Level  | 0 to Maximum-Account (0-100d) | ( 1)          |
|   |   |              |                               | -----<br>(17) |

## Access Code: 273

### Function: Deleting Sales Data in an Account

Performed After Final Evaluation of Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command

|   |    |                 |  |      |
|---|----|-----------------|--|------|
| N | 1  | CMD             | 0d                                     | ( 1) |
| N | 5  | Code            | 273d                                   | ( 5) |
| F | 4  | Control         | ( 4)                                   |      |
|   |    |                 | <i>sales level</i>                     |      |
|   |    |                 | 0000 <i>sales level 1</i>              |      |
|   |    |                 | 0100 <i>sales level 2</i>              |      |
|   |    |                 | 0200 <i>sales level 3</i>              |      |
|   |    |                 | 0300 <i>sales level 4</i>              |      |
|   |    |                 | <i>sales type</i>                      |      |
|   |    |                 | 0000 = <i>service counter sales</i>    |      |
|   |    |                 | 0400 = <i>self-serve sales</i>         |      |
|   |    |                 | 0800 = <i>pre-pack sales</i>           |      |
|   |    |                 | 0C00 = <i>inventory value</i>          |      |
| N | 4  | Department      | 0                                      | ( 4) |
| N | 2  | Scale Number    | 0                                      | ( 2) |
| C | 20 | Account Number. | ASCII characters alphanumeric          | (20) |
| N | 3  | Sales Level     | 0 - Max.-Account (0-100d)              | ( 1) |
| N |    | Sales           | 0 - 1d                                 | ( 1) |
|   |    |                 | 0 = <i>general sales</i>               |      |
|   |    |                 | 1 = <i>Special offer article sales</i> |      |
| N | 6  | Deletion Date   | dd / mm / yy (binary)                  | ( 3) |
| N | 4  | Deletion Time   | hh / mm (binary)                       | ( 2) |
|   |    |                 | -----                                  |      |
|   |    |                 |  | (43) |

#### Response

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | RSP          | 1,3d   | ( 1) |
| N | 5 | Code         | 273d   | ( 5) |
| F | 4 | Control      | Status | ( 4) |
| N | 4 | Department   | 0      | ( 4) |
| N | 2 | Scale Number | 0      | ( 2) |
|   |   |              | -----  |      |
|   |   |              |        | (16) |

## Access Code: 274

### Function: Euro Configuration

Working with the Euro Configuration stored in EAROM

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 274d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |

|   |   |           |               |      |
|---|---|-----------|---------------|------|
| N | 8 | Euro Rate | (read only !) | ( 8) |
|---|---|-----------|---------------|------|

*Notes on EURO rate:*

- 8 Positions are possible, including the decimal point

- A maximum of only 6 positions may be non-zero

(E.g. 1,95124 / 0,945671 / 102452)

- examples of valid rates:

*Example 1: Country with 1 pre-decimal point position with*

*Exchange Rate ⇒ 1,00000 ... 1,99999*

*Example 2: Country with 6 pre-decimal point positions with*

*Exchange rate ⇒ 100000 ... 999999*

- leading zeroes or leading space characters are right aligned

- Decimal point may also be a comma

|   |   |                         |  |      |
|---|---|-------------------------|--|------|
| F | 4 | Euro Configuration Flag |  | ( 4) |
|---|---|-------------------------|--|------|

| Bit     | Meaning                             | Value  |
|---------|-------------------------------------|--|
| 0-1     | Euro Phase                          | (0..3)   |
| 2-4     | Receipt attribute                   | only relevant to phases 1 and 2<br>0 = Print Total in secondary currency<br>1 = Print Total and Article Price in secondary currency<br>2 = Print Total, Article Price and Change Computation in secondary currency |
| 5-7     | Label attribute                     | only relevant to phases 1 and 2<br>0 = Print amount in Secondary currency<br>1 = Print amount and Base Price in secondary currency   |
| 8       | Euro symbol (read only)             | Show Euro symbol in MIRA display<br>0 = Euro symbol off<br>1 = Euro symbol on  |
| 9       | Price conversion status (read only) | 0 = Prices have not been converted to Euro<br>1 = Prices have been converted to Euro   |
| 10      | EAN Attribute                       | 0 = EAN Code in primary currency<br>1 = EAN Code always in national currency   |
| 11 - 15 | Don't care                          |  |

|   |   |  |  |      |
|---|---|--|--|------|
| N | 3 | Price modification based on Euro/National currency |  | ( 3) |
|---|---|--|--|------|

*(write only !)*

*0 = Do not implement price modification*

*1 = Implement price modification*

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(31)

**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 274d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0 - 64d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

*NOTE: The Euro Configuration only takes effect on scales loaded with software intended for an EU country.*

**Access Code: 275****Function: Load Printer Logo for LP Customer-/ Cash-Receipt**

Loading a Receipt Logo into the scale

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify)**

|   |    |              |                       |      |
|---|----|--------------|-----------------------|------|
| N | 1  | CMD          | 0d                    | ( 1) |
| N | 5  | Code         | 275d                  | ( 5) |
| F | 4  | Control      | Access   Key   Status | ( 4) |
|   |    |              | <i>write only</i>     |      |
| N | 4  | Department   | 0 - 9999d             | ( 4) |
| N | 2  | Scale Number | 0 - 64d               | ( 2) |
| N | 3  | Line Number  | 0 - 255d              | ( 3) |
| C | 48 | Bit Value    | ASCII character       | (48) |
|   |    |              | -----                 | (67) |

**Response (create, modify)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | RSP          | 1,3d                  | ( 1) |
| N | 5 | Code         | 275d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |
| N | 3 | Line Number  | 0 - 255d              | ( 3) |
|   |   |              | -----                 | (19) |

## Access Code: 276

### Function: Payment Methods – EU Currencies

Working with Payment Methods (e.g. cash, cheque, card, vouchers, foreign currency etc.)

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

#### Command (create or modify) / Response (read) for EU CURRENCIES as Methods of Payment

|   |    |                            |  |      |
|---|----|----------------------------|--|------|
| N | 1  | CMD/RSP                    | 0d/1,3d  | ( 1) |
| N | 5  | Code                       | 276d   | ( 5) |
| F | 4  | Control                    | Access   Key   Status  | ( 4) |
| N | 4  | Department                 | 0d   | ( 4) |
| N | 2  | Scale Number               | 0d   | ( 2) |
| N | 1  | Payment Method             | 1 - 8d,<br><i>fixed Payment Methods (non-readable)</i><br><i>0d = Primary currency</i><br><i>9d = Secondary currency</i> | ( 1) |
| C | 20 | Payment Method description | with EU payment, don't care  | (20) |
| C | 3  | Currency abbreviation      | with EU payment, don't care  | ( 3) |
| N | 1  | Decimal places             | 0d   | ( 1) |
| N | 1  | Rounding                   | with EU payment, don't care  | ( 1) |
| N | 11 | Factor                     | with EU payment, don't care  | (11) |
| N | 11 | Rate                       | with EU payment, don't care  | (11) |
| F |    | Configuration Flag         |  | ( 4) |

| Bit    | Meaning   |
|--------|---|
| 0      | 0 = Non EU currency<br>1 = EU currency  |
| 1 - 2  | with EURO payment, Don't care<br>00 = Phase 0<br>11 = Phase 1<br>10 = Phase 2<br>11 = Phase 3   |
| 3 - 7  | <b>EU currency selection</b><br>00000 = BEM Belgium Francs<br>00001 = DEM Deutsche Mark<br>00010 = FIM Finland Markkaa<br>00011 = FRF France Francs<br>00100 = IEP Ireland Punt<br>00101 = ITL Italy Lira<br>00110 = LUF Luxembourg Francs<br>00111 = NLG Holland (Netherlands) Guilders<br>01000 = ATS Austria Schillings<br>01001 = PTE Portugal Escudos<br>01010 = ESP Spain Pesetes |
| 8 - 15 | Don't care  |

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(68)

Example: Flag value for Deutsche Mark

|            |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|
| Flag-Value | 0           | 0           | 0           | 9           |
| Bit-Value  | 0 0 0 0     | 0 0 0 0     | 0 0 0 0     | 1 0 0 1     |
| Bit-Nr     | 15 14 13 12 | 11 10 09 08 | 07 06 05 04 | 03 02 01 00 |

Flag-Value for Luxembourg Francs

|            |             |             |             |             |
|------------|-------------|-------------|-------------|-------------|
| Flag-Value | 0           | 0           | 3           | 1           |
| Bit-Value  | 0 0 0 0     | 0 0 0 0     | 0 0 1 1     | 0 0 0 1     |
| Bit-Nr     | 15 14 13 12 | 11 10 09 08 | 07 06 05 04 | 03 02 01 00 |



**Command (create or modify) / Response (read) for non EU CURRENCY as Payment Method**

|   |    |                            |  |      |
|---|----|----------------------------|--|------|
| N | 1  | CMD/RSP                    | 0d/1,3d  | ( 1) |
| N | 5  | Code                       | 276d   | ( 5) |
| F | 4  | Control                    | Access   Key   Status  | ( 4) |
| N | 4  | Department                 | 0d   | ( 4) |
| N | 2  | Scale Number               | 0d   | ( 2) |
| N | 1  | Payment Method             | 1 - 8d,<br><i>fixed payment methods (non-readable)</i><br><i>0d = primary currency</i><br><i>9d = secondary currency</i> | ( 1) |
| C | 20 | Payment Method description | ASCII character  | (20) |
| C | 3  | Currency abbreviation      | ASCII character  | ( 3) |
| N | 1  | Decimal places             | 0 - 3d   | ( 1) |
| N | 1  | Rounding                   | 0 – 1d<br><i>0d = rounding down to nearest 1</i><br><i>1d = rounding down to nearest 5</i>                               | ( 1) |
| N | 11 | Factor                     | 0 - 99999999999<br><i>(without decimal point)</i>  | (11) |
| N | 11 | Rate                       | 0 - 99999999999<br><i>(without decimal point)</i>  | (11) |
| F |    | Configuration Flag         |  | ( 4) |

| Bit           | Meaning  |
|---------------|--|
| <b>0</b>      | <b>0 = Non Euro currency</b><br>1 = Euro currency  |
| <b>1 – 2</b>  | <b>with EURO payment, Don't care</b><br><b>00 = Phase 0</b><br><b>11 = Phase 1</b><br><b>10 = Phase 2</b><br><b>11 = Phase 3</b>   |
| <b>3 – 7</b>  | <b>EU currency selection</b><br><b>00000 = BEM Belgium Francs</b><br><b>00001 = DEM Deutsche Mark</b><br><b>00010 = FIM Finland Markkaa</b><br><b>00011 = FRF France Francs</b><br><b>00100 = IEP Ireland Punt</b><br><b>00101 = ITL Italy Lira</b><br><b>00110 = LUF Luxembourg Francs</b><br><b>00111 = NLG Holland (Netherlands) Guilders</b><br><b>01000 = ATS Austria Schillings</b><br><b>01001 = PTE Portugal Escudos</b><br><b>01010 = ESP Spain Pesetes</b> |
| <b>8 – 15</b> | Don't care   |

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(68)**Command (delete or read) / Response (create, modify or delete)**  
*for EU and non EU Methods of Payment*

|   |   |                |  |      |
|---|---|----------------|--|------|
| N | 1 | CMD/RSP        | 0d/1,3d  | ( 1) |
| N | 5 | Code           | 276d   | ( 5) |
| F | 4 | Control        | Access   Key   Status  | ( 4) |
| N | 4 | Department     | 0d   | ( 4) |
| N | 2 | Scale Number   | 0d   | ( 2) |
| N | 1 | Payment Method | 1 - 8d,<br><i>fixed payment methods (non-readable)</i><br><i>0d = primary currency</i><br><i>9d = Secondary currency</i> | ( 1) |

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(17)

## Access Code: 277

### Function: User Configuration – MIRA Specific

Working with user configuration data

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |                        |                       |      |
|---|---|------------------------|-----------------------|------|
| N | 1 | CMD/RSP                | 0d/1,3d               | ( 1) |
| N | 5 | Code                   | 277d                  | ( 5) |
| F | 4 | Control                | Access   Key   Status | ( 4) |
| N | 4 | Department             | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number           | 0 - 64d               | ( 2) |
| F | 4 | User config. status. 1 | Flag                  | ( 4) |

| Bit | Meaning   | Value                                       |
|-----|---|---|
| 0   | Rounding to nearest 5 of receipt totals   | 0=off / 1=on                                |
| 1   | Print VAT value on receipt  | 0=off / 1= on                               |
| 2   | Zero the scale with CODE+C+CODE   | 0=off / 1= on                               |
| 3   | Reset receipt number with overflow (> 10000; not with change of date)   | 0=off / 1= on                               |
| 4   | Total receipt with Department Specific Receipt  | 0=off / 1= on                               |
| 5   | Open cash draw with blank receipt   | 0=off / 1= on                               |
| 6   | suppress receipt printing (comes to effect only for receipts without weight-articles)   | 0=off / 1= on                               |
| 7   | booking with price 0  | 0=off / 1= on                               |
| 8   | booking with open cash-draw   | 0=off / 1= on                               |
| 9   | printing on LINERLESS-Paper   | 0=off / 1= on                               |
| 10  | Standard or Optimized receipt   | 0= Standard receipt<br>1= optimized receipt |
| 11  | <b>only for LPe (Appl. LE05...)</b><br>deactivate inactive devices (put on teh NETMAP as inactive device) or activate them automatically (all active devices try continuously te reach the inactive device) | 0=deactivate<br>1=try to activate           |
| 12  | print direct texts on the receipt   | 0=off / 1= on                               |
| 13  | Tare key for the Self-Service Mode  | 0=off / 1=on                                |
| 14  | only for Belgium<br>0,5 Fr or 1 Fr rounding   | 0=0,5 Fr / 1=1 Fr                           |
| 15  | Training-Mode *   | 0= enabled<br>1= disabled                   |

|   |   |  |   |      |
|---|---|--|---|------|
| N | 2 | reference column for direct-texts on the receipt | 0 – 10d   | ( 2) |
| N | 2 | Total Time (Receipt)                             | 0 – 31d *<br>0 ⇒ Total is registered 30s<br>1 – 30 ⇒ Total is registered 1s to 30s<br>31 ⇒ Total is not registered (0s) | ( 2) |

F 4 User config. status 2 Flag (4)

| Bit  | Meaning  | Value         |
|------|--|---------------|
| 0    | Value After Tax per booking*   | 0=no / 1= yes |
| 1    | printing of the headline (line 0) for direct an longtexts                | 0=no / 1= yes |
| 2    | rounding to 5 for the ticken amount                                      | 0=no / 1= yes |
| 3    | using ticket numbers in the self service (only with LM07, LM27 and LF05) | 0=no / 1= yes |
| 4    | percentage PLU-Tare  | 0=no / 1= yes |
| 5    | basic price Hand +/- per department                                      | 0=no / 1= yes |
| 6    | header-text on turnover reports  | 0=no / 1= yes |
| 7-15 | unused   |               |

\* these settings are only possible with the LP 2-Flash applications

LMxx / LFxx (without LM03, 23, 05, 25) and LExx (without LE05)

\*1 only for LM06/26/07/27 from V 149, LF03/05 from V149 and Le06/07 from V 140

\*2 only for LM06/26 from V149, LF05 from V149 and Le06 from V140

\*3 only for LM06/26/07/27 form V 150, LF03/05 from V150 and Le06/07 from V 141

N 4 Timer Error cash register open 0 – 999d (4)

0 ⇒ no error message for open cash register

1 – 999 ⇒ error message for open cash register

after 1s to 999s (text an beep))

only for LM06/26/07/27 from V 144, LF03/05 from V144, Le06/07 from V 135

N 2 percent Tare-Values FROM Tare number 0 – 99d (2)

only for LM06/26/07/27 from V 149, LF03/05 from V149, Le06/07 from V 140

N 2 percent Tare-Values TO Tare number 0 – 99d \* (2)

only for LM06/26/07/27 from V 149, LF03/05 from V149, Le06/07 from V 140

F 4[5] User configuration status 6 to 8 Flag (12)

| Bit  | Meaning    | Value |
|------|------------|-------|
| 0-15 | Don't care |       |

These flag values are currently reserved for possible future use

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(48)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1) |
| N | 5 | Code         | 277d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number | 0 - 64d               | ( 2) |

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(16)

## Access Code: 278

### Function: Order Data

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |       |                       |                        |      |
|---|-------|-----------------------|------------------------|------|
| N | 1     | CMD/RSP               | 0d/1,3d                | ( 1) |
| N | 5     | Code                  | 278d                   | ( 5) |
| F | 4     | Control               | Access   Key   Status  | ( 4) |
| N | 4     | Department            | 0d                     | ( 4) |
| N | 2     | Scale Number          | 0d                     | ( 2) |
| N | 2 [4] | Date/Time             | hh / dd / mm / yy      | ( 8) |
| N | 5     | Delivery ID           | 1 – 99999d             | ( 5) |
| N | 4     | PLU Department Number | 1 – 9999d              | ( 4) |
| N | 6     | PLU Number            | 1 – 999999d            | ( 6) |
| C | 20    | PLU description       | ASCII character        | (20) |
| N | 11    | Amount                | +/- 0 – 9999999d       | (11) |
| N | 5     | Weight/Quantity       | 0 – 99999d (g, Pieces) | ( 5) |
| F | 4     | Flag                  | ( 4)                   |      |

| Bit    | Meaning                 | Value                      |
|--------|-------------------------|----------------------------|
| 0      | Weight or non-weigh PLU | 0 = Weight / 1 = non-weigh |
| 1 – 15 | Don't care              | 0=off / 1=on               |

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(58)

#### Command (delete or read) / Response (create, modify or delete)

|   |       |                       |                       |      |
|---|-------|-----------------------|-----------------------|------|
| N | 1     | CMD/RSP               | 0d/1,3d               | ( 1) |
| N | 5     | Code                  | 278d                  | ( 5) |
| F | 4     | Control               | Access   Key   Status | ( 4) |
| N | 4     | Department            | 0d                    | ( 4) |
| N | 2     | Scale Number          | 0d                    | ( 2) |
| N | 2 [4] | Date/Time             | hh / dd / mm / yy     | ( 8) |
| N | 5     | Delivery ID           | 1 – 99999d            | ( 5) |
| N | 4     | PLU Department Number | 1 – 9999d             | ( 4) |
| N | 6     | PLU Number            | 1 – 999999d           | ( 6) |

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(39)

## Access Code: 279

### Function: Scale Configuration – expansion 1

#### Working with Scale Configuration

!!! To activate Access Code 279, use Access Code 201 after using this code (Scale Config.) !!!

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (create or modify) / Response (read)

|   |   |                              |  |      |
|---|---|------------------------------|--|------|
| N | 1 | CMD/RSP                      | 0d/1,3d                                | ( 1) |
| N | 5 | Code                         | 279d                                   | ( 5) |
| F | 4 | Control                      | Access   Key   Status                  | ( 4) |
| N | 4 | Department                   | 0 - 9999d                              | ( 4) |
| N | 2 | Scale Number                 | 0 - 64d                                | ( 2) |
| N | 4 | No. of deliv. note customers | 0 - 2000d                              | ( 4) |
| N | 4 | No. of deliv. note entries   | 0 - 4500d                              | ( 4) |
|   |   |                              | <i>for all delivery note customers</i> |      |
| F | 4 | Scale configuration          | Flag                                   | ( 4) |
|   |   | Flag 3                       |  |      |

| Bit  | Meaning   | Value                                   |
|------|---|---|
| 0    | Hand-scanner on Channel A                               | 0=off / 1=on                            |
| 1    | Logo-Print on Reciept-Printer                           | 0=off / 1=on                            |
| 2    | Direct-Texts and Shortcodes                             | 0 = whole network<br>1 = per department |
| 3    | with Scanner  | 0=off / 1=on                            |
| 4    | with Shortcode long (comp Code 296)                     | 0=off / 1=on                            |
| 5    | with INET-Mode  | 0=off / 1=on *1)                        |
| 6    | with INET-Mode turn-over<br>(is booked to operator 102) | 0=off / 1=on *1)                        |
| 7    | special Shortcode from – to number<br>(see command 288) | 0 = 101 – 120<br>1 = 231 - 250 *2)      |
| 8    | receipt number per department                           | 0=off / 1=on                            |
| 9-15 | Don't care  |   |

\*1) only for LM06/26/07/27 from V150, LF03/05 from V150 and Le06/07 from V141

\*2) only for LM06/26/07/27 from V155, LF03/05 from V155 and Le06/07 from V 146, bC/bPro from V114

|   |   |                                |  |               |
|---|---|--------------------------------|--|---------------|
| N | 4 | Ingredients Text length        | 0 – 900d resp 1800d *2)<br>0 – 3600d (only bC/bPro from V 111)   | ( 4)          |
| N | 3 | Direct Text Lines              | 0 – 100d resp. 230d *2)  | ( 3)          |
| N | 2 | Direct Text Columns            | 0 – 10d  | ( 2)          |
| N | 2 | Direct Text Long Lines         | 0 – 10d resp. 229d *2)<br><i>Summation from direct text lines and long lines is<br/>max. 230 where direct text line must be 0 or at least<br/>min. 1 that it's possible to define direct long text lines</i> | ( 2)          |
| N | 3 | No. of Shortcodes              | 0 – 100d *1) resp. 230 *2)<br>*1) only for LM05, LM25, LF05, LF25 LE05, LF03, LF23<br>*2) onyl for LM06/26/07/27 from V 155, LF03/05 from V155 and Le06/07 from V 146  | ( 3)          |
| N | 4 | No. of PLUs with<br>ingedients | 0 – 9999d<br><br>⇒ with LMxx / LFxx from version 135<br>⇒ with LExx from version 126   | ( 4)          |
| N | 2 | Don't care                     |  | ( 2)          |
|   |   |                                |  | -----<br>(48) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |               |
|---|---|--------------|-----------------------|---------------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)          |
| N | 5 | Code         | 279d                  | ( 5)          |
| F | 4 | Control      | Access   Key   Status | ( 4)          |
| N | 4 | Department   | 0 - 9999d             | ( 4)          |
| N | 2 | Scale Number | 0 - 64d               | ( 2)          |
|   |   |              |                       | -----<br>(16) |

## Access Code: 280

### Function: Delivery Note Customer Data

Working with Customer Data for Delivery Notes

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |     |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a |

#### Command (create or modify) / Response (read)

|   |     |                           |                       |       |
|---|-----|---------------------------|-----------------------|-------|
| N | 1   | CMD/RSP                   | 0d/1,3d               | ( 1)  |
| N | 5   | Code                      | 280d                  | ( 5)  |
| F | 4   | Control                   | Access   Key   Status | ( 4)  |
| N | 4   | Department                | 0 - 9999d             | ( 4)  |
| N | 2   | Scale Number              | 0 - 64d               | ( 2)  |
| C | 13  | Customer Number           |                       | ( 13) |
| C | 100 | Customer Text             |                       | (100) |
| C | 100 | Header                    |                       | (100) |
| C | 100 | Footer                    |                       | (100) |
| C | 1   | Mark-up / Discount number | 0 – 9d                | ( 1)  |
| C | 1   | Number of copies          | 0 – 9d                | ( 1)  |
| F | 4   | Configuration Flag        | ( 4)                  |       |

| Bit    | Meaning  | Value                      |
|--------|--|----------------------------|
| 0      | Don't care   |                            |
| 1      | Print prices and amounts                                     | 0 = off / 1 = on           |
| 2      | Leave space for signature                                    | 0 = off / 1 = on           |
| 3      | list closed delivery notes in the cash register sales report | 0 = list<br>1 = don't list |
| 4      | Value After Tax per booking*                                 | 0= no / 1= yes             |
| 5 – 15 | Don't care   |                            |

\* these setting is only possible with the LP 2-Flash applications LM03, 28

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(335)

#### Command (delete or read) / Response (create, modify or delete)

|   |    |                 |                       |                |
|---|----|-----------------|-----------------------|----------------|
| N | 1  | CMD/RSP         | 0d/1,3d               | ( 1)           |
| N | 5  | Code            | 280d                  | ( 5)           |
| F | 4  | Control         | Access   Key   Status | ( 4)           |
| N | 4  | Department      | 0 - 9999d             | ( 4)           |
| N | 2  | Scale Number    | 0 - 64d               | ( 2)           |
| C | 13 | Customer Number |                       | ( 13)          |
|   |    |                 |                       | -----<br>( 29) |

## Access Code: 283

### Function: Configuration of E-Cash Card Reader

Configuring the COM Port for an E-Cash Card Reader

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |     |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a |

#### Command (create or modify) / Response (read)

|   |   |                          |   |      |
|---|---|--------------------------|---|------|
| N | 1 | CMD/RSP                  | 0d/1,3d   | ( 1) |
| N | 5 | Code                     | 283d  | ( 5) |
| F | 4 | Control                  | Access   Key   Status   | ( 4) |
| N | 4 | Department               | 0d  | ( 4) |
| N | 2 | Scale Number             | 0d  | ( 2) |
| N | 3 | Card Reader Manufacturer | 0 – 255d<br><i>0d = Giesecke &amp; Devrient</i><br><i>1d = Wellcom</i><br><i>2d - 255d free</i> | ( 3) |
| N | 6 | Card Reader password     | 0 - 999999d   | ( 6) |
| F | 4 | Configuration Flag       | ( 4)  |      |

| Bit    | Meaning  | Value                       |
|--------|--|-----------------------------|
| 0      | Cancellation of authorization by cash register | 0 = Disabled<br>1 = Enabled |
| 1 – 15 | Don't care                                     |                             |

|   |   |                      |            |      |
|---|---|----------------------|------------|------|
| N | 5 | Cash Register Number | 0 - 65536d | ( 5) |
| N | 3 | don't care           |            | ( 3) |
| F | 4 | Reserve Flag         |            | ( 4) |

| Bit  | Meaning    | Value |
|------|------------|-------|
| 0-15 | don't care |       |

|   |       |         |            |       |
|---|-------|---------|------------|-------|
| N | 5 [5] | Reserve | 0 - 65536d | ( 25) |
|   |       |         |            | ----- |
|   |       |         |            | (66)  |

#### Command (read) / Response (create, modify)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 283d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0d                    | ( 4)  |
| N | 2 | Scale Number | 0d                    | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

**Access Code: 285****Function: Keyboard configuration LP addition (direct-text-keys, special keys)**

assignment from direct-text columns to the direct-text-keys / defining additional special function keys

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command (create or modify) / Response (read)**

|   |        |                         |                                  |      |
|---|--------|-------------------------|----------------------------------|------|
| N | 1      | CMD/RSP                 | 0d/1,3d                          | ( 1) |
| N | 5      | Code                    | 285d                             | ( 5) |
| F | 4      | Control                 | Access   Key   Status            | ( 4) |
| N | 4      | Department              | 0 - 9999d                        | ( 4) |
| N | 2      | Scale Number            | 0 - 64d                          | ( 2) |
| N | 3      | keyboard-type           | 0-9d                             | ( 3) |
|   |        |                         | 4d = T100                        |      |
|   |        |                         | 5d = T79                         |      |
|   |        |                         | 6d = T98                         |      |
|   |        |                         | 7d = T104                        |      |
|   |        |                         | 8d = T82                         |      |
|   |        |                         | 9d = T144                        |      |
| N | 2      | No. of Direkt-Text-Keys | 0 - 10d                          | ( 2) |
| N | 2      | DT-Column DT-key 01     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 02     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 03     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 04     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 05     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 06     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 07     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 08     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 09     | 0 - 99d                          | ( 2) |
| N | 2      | DT-Column DT-key 10     | 0 - 99d                          | ( 2) |
| N | 2      | don't care              | 0d                               | ( 2) |
| N | 2 [10] | don't care              | 0d                               | (20) |
| N | 2      | don't care              | 0d                               | ( 2) |
| N | 2 [10] | don't care              | 0d                               | (20) |
| N | 2      | don't care              | 0d                               | ( 2) |
| N | 4 [10] | don't care              | 0d                               | (40) |
| N | 3      | don't care              | 0d                               | ( 3) |
| N | 3      | don't care              | 0d                               | ( 3) |
| N | 3      | don't care              | 0d                               | ( 3) |
| N | 3      | don't care              | 0d                               | ( 3) |
| F | 4      | Flag                    | 0d ⇒ look at the Definitiontable | ( 4) |

*Flag definition table*

| Bit     | Meaning              | Value                  | Remark     |
|---------|----------------------|------------------------|------------|
| 0       | key F (Fix-Key)      | 0 = without / 1 = with | advice *1) |
| 1       | two Price-Level keys | 0 = without / 1 = with | advice *1) |
| 2       | Till deposit key     | 0 = without / 1 = with | advice *2) |
| 3       | Till payout key      | 0 = without / 1 = with | advice *2) |
| 4       | Temporary label key  | 0 = without / 1 = with | advice *3) |
| 5       | Matchcode key        | 0 = without / 1 = with | advice *3) |
| 6       | INET-Mode            | 0 = without / 1 = with | advice *4) |
| 7       | Service Counter mode | 0 = without / 1 = with | advice *5) |
| 8       | Rewrap mode          | 0 = without / 1 = with | advice *6) |
| 9       | Inventory mode       | 0 = without / 1 = with | advice *6) |
| 10 – 15 | don't care           |                        |            |

\*1) only with LP 2-Flash App. LMxx / LFxx (without LM03, 23, 05, 25) and LExx (without LE05) possible

\*2) ⇒ only with LF03 from V144

\*3) ⇒ only with LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137

\*4) ⇒ only with LM06, 26, 07, 27 from V150 / LF 03, 05 from V150 / LE06 from V141

\*5) ⇒ only with LM06, 26, 07, 27 from V154 / LF03, 05 from V154 / Le06, 07 from V145

\*6) ⇒ only with LM06, 26, 07, 27 from V57 / LF 03, 05 from V157 / LE06, 07 from V148

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(143)



**Command (delete or read) / Response (create, modify or delete)**

|   |   |            |                       |       |
|---|---|------------|-----------------------|-------|
| N | 1 | CMD/RSP    | 0d/1,3d               | ( 1)  |
| N | 5 | Kennung    | 285d                  | ( 5)  |
| F | 4 | Steuerung  | Access   Key   Status | ( 4)  |
| N | 4 | Abteilung  | 0 - 9999d             | ( 4)  |
| N | 2 | Geräte-Nr. | 0 - 64d               | ( 2)  |
|   |   |            |                       | ----- |
|   |   |            |                       | (16)  |

## Access Code: 287

### Function: Shortcode Data

Create the Shortcode-Datas (No, Text, Directtext assignment, Quantity)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

#### Command (create or modify) / Response (read)

|   |    |                           |  |       |
|---|----|---------------------------|--|-------|
| N | 1  | CMD/RSP                   | 0d/1,3d  | ( 1)  |
| N | 5  | Code                      | 287d   | ( 5)  |
| F | 4  | Control                   | Access   Key   Status  | ( 4)  |
| N | 4  | Department                | 0 - 9999d  | ( 4)  |
|   |    |                           | <i>LP ⇨ for LM/LF from version 137 and<br/>LE from version 128</i>   |       |
|   |    |                           | <i>L2 ⇨ for LL from version 430, LL27 Vers. 110</i>  |       |
| N | 2  | Scale-Number              | 0d   | ( 2)  |
| N | 3  | Shortcode-No              | 1 – 100 respectively 230d<br><i>230d only for LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V 146 and bC from V114</i> | ( 3)  |
| C | 20 | Shortcode-Text            |  | (20)  |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 1  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 2  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 3  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 4  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 5  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 6  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 7  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 8  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 9  |  |       |
| N | 2  | Direct-Text Line No.      | 0 – 99d  | ( 2)  |
|   |    | for Direct-Text Column 10 |  |       |
| N | 7  | supplied weight           | 0 – 9999999d   | ( 7)  |
|   |    |                           | <i>without decimal point</i>   |       |
| N | 7  | supplied No. of units     | 0 – 9999999d   | ( 7)  |
|   |    |                           |  | ----- |
|   |    |                           |  | (73)  |

further details for Directtext-Line-Number see at Access Code 269

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |  |       |
|---|---|--------------|--|-------|
| N | 1 | CMD/RSP      | 0d/1,3d  | ( 1)  |
| N | 5 | Code         | 287d   | ( 5)  |
| F | 4 | Control      | Access   Key   Status  | ( 4)  |
| N | 4 | Department   | 0 - 9999d  | ( 4)  |
|   |   |              | <i>LP ⇨ for LM/LF from version 137 and<br/>LE from version 128</i> |       |
|   |   |              | <i>L2 ⇨ for LL from version 430, LL27 Vers. 110</i>                |       |
| N | 2 | Scale No.    | 0d   | ( 2)  |
| N | 3 | Shortcode-Nr | 1 – 100d   | ( 3)  |
|   |   |              |  | ----- |
|   |   |              |  | (19)  |

**Access Code: 288****Function: Label Additional (Shortcode Assignment for a PLU / PLU-Tare)**

Shortcode-assignment for an article (PLU) / defining PLU-Tare settings per operating-mode

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

**Command (create or modify) / Response (read)**

|   |   |                  |                       |      |
|---|---|------------------|-----------------------|------|
| N   | 1 | CMD/RSP          | 0d/1,3d               | ( 1) |
| N   | 5 | Code             | 288d                  | ( 5) |
| F   | 4 | Control          | Access   Key   Status | ( 4) |
| N   | 4 | Department       | 0 - 9999d             | ( 4) |
| N   | 2 | Scale-Number     | 0d                    | ( 2) |
| N   | 6 | PLU-Number       | 1 – 999999d           | ( 6) |
| N   | 3 | Shortcode-Number | 0 – 106d resp. 236d   | ( 3) |
| <i>max-value 106 or 236 depends upon the setting in the scale configuration (Access Code 279)</i> |   |                  |                       |      |

| definiert in Waagen-Konf |                    |  |
|--------------------------|--------------------|--|
| 0                        | 0                  | ⇒ all permissible  |
| 1–100                    | 1-230 <sup>3</sup> | ⇒ PLU permitted to book only with Shortcode  |
| 101                      | 231 <sup>3</sup>   | ⇒ PLU permitted to book only with Direct-Texts   |
| 102                      | 232                | ⇒ PLU permitted to book only with Shortcode<br>Shortcode not yet distinct                      |
| 103                      | 233 <sup>3</sup>   | ⇒ no Direct-Text and no Shortcode  |
| 104 <sup>1</sup>         | 234 <sup>3</sup>   | ⇒ assign Shortcode form EAN128<br>(in combination with ID 296))                                |
| 105 <sup>1</sup>         | 235 <sup>3</sup>   | ⇒ assign Shortcode form EAN13<br>(in combination with ID 296))                                 |
| 106 <sup>2</sup>         | 236 <sup>3</sup>   | ⇒ Shortcode – feed 20 characters text or number<br>(for MT-E customer Caprabo / no turn-overs) |

<sup>1</sup>) only for LM06,26, 07,27 from V148 / LF03, 05 from V148 and LE06, 07 from V139, bC from 114<sup>2</sup>) only for LM06,26, 07,27 from V150 / LF03,05 from V150 and LE06, 07 from V141, bC from 114<sup>3</sup>) only for LM06,26, 07,27 from V155 / LF03,05 from V150 and LE06, 07 from V146, bC from 114

|                               |   |              |  |      |
|-------------------------------|---|--------------|--|------|
| F                             | 4 | Article-Flag |  | ( 4) |
| Definition table for the flag |   |              |  |      |

| Bit    | Meaning                   | Value            | Remark    |
|--------|---------------------------|------------------|-----------|
| 0      | PLU-Tare PP1-Mode         | 0 = yes / 1 = no | siehe *1) |
| 1      | PLU-Tare Selling-Mode     | 0 = yes / 1 = no | siehe *1) |
| 2      | PLU-Tare Inventory-Mode   | 0 = yes / 1 = no | siehe *1) |
| 3      | PLU-Tare SelfService-Mode | 0 = yes / 1 = no | siehe *1) |
| 4      | PLU-Tare INET-Mode        | 0 = yes / 1 = no | siehe *1) |
| 5 – 15 | don't care                |                  |           |

\*5) ⇒ only for LM06, 26, 07, 27 from V150 / LF 03, 05 from V150 / LE06, 07 from V141

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(29)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |               |
|---|---|--------------|-----------------------|---------------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)          |
| N | 5 | Code         | 288d                  | ( 5)          |
| F | 4 | Control      | Access   Key   Status | ( 4)          |
| N | 4 | Department   | 0 - 9999d             | ( 4)          |
| N | 2 | Scale-Number | 0d                    | ( 2)          |
| N | 3 | PLU-Number   | 1 – 999999d           | ( 6)          |
|   |   |              |                       | -----<br>(22) |

## Access Code: 289

### Function: Shortcode sales datas

read / delete the sales-datas for the Shortcode-Numbers

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

#### Command (delete or read) / Response (delete)

|   |   |               |  |      |
|---|---|---------------|--|------|
| N | 1 | CMD/RSP       | 0d/1,3d  | ( 1) |
| N | 5 | Code          | 289d   | ( 5) |
| F | 4 | Control       | Access   Key   Status  | ( 4) |
|   |   |               | <i>read or delete only</i>   |      |
| N | 4 | Department    | 0 – 9999d  | ( 4) |
|   |   |               | <i>LP ⇒ for LM/LF from version 137 and</i>                         |      |
|   |   |               | <i>LE from version 128</i>   |      |
|   |   |               | <i>L2 ⇒ for LL from version 430, LL27 Vers. 110</i>                |      |
| N | 2 | Scale-Number  | 0d   | ( 2) |
| N | 3 | Shortcode-No. | 1 – 100d resp. 230d  | ( 3) |
|   |   |               | <i>230d only with LM06/26/07/27 from V 155, LF03/05 from V155,</i> |      |
|   |   |               | <i>Le06/07 from V 146, bC from V114</i>                            |      |

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(19)

#### Response (read)

|   |      |                    |   |      |
|---|------|--------------------|---|------|
| N | 1    | CMD/RSP            | 0d/1,3d   | ( 1) |
| N | 5    | Code               | 289d  | ( 5) |
| F | 4    | Control            | Access   Key   Status                               | ( 4) |
| N | 4    | Department         | 0 – 9999d   | ( 4) |
|   |      |                    | <i>LP ⇒ for LM/LF from version 137 and</i>          |      |
|   |      |                    | <i>LE from version 128</i>                          |      |
|   |      |                    | <i>L2 ⇒ for LL from version 430, LL27 Vers. 110</i> |      |
| N | 2    | Scale-Number       | 0d  | ( 2) |
| N | 3    | Shortcode-No.      | 1 – 100d  | ( 3) |
| N | 7    | weight             | 0 – 9999999d  | ( 7) |
|   |      |                    | <i>without decimal point</i>                        |      |
| N | 7    | No. of units       | 0 – 9999999d  | ( 7) |
| N | 2[3] | Date first booking | dd/mm/yy  | ( 6) |
| N | 2[2] | time first booking | hh/mm   | ( 4) |
| N | 2[3] | Date last booking  | dd/mm/yy  | ( 6) |
| N | 2[2] | time last booking  | hh/mm   | ( 4) |

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(53)

## Access Code: 290

### Function: Scale Configuration / expansion 2 (LP/M)

Behandlung von Waagen-Konfigurationsdaten.

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command (delete or read) / Response (delete)

|  |   |                     |                       |       |
|--|---|---------------------|-----------------------|-------|
| N  | 1 | CMD/RSP             | 0d/1,3d               | ( 1)  |
| N  | 5 | Code                | 290d                  | ( 5)  |
| F  | 4 | Control             | Access   Key   Status | ( 4)  |
| N  | 4 | Department          | 0 - 9999d             | ( 4)  |
| N  | 2 | Scale-Number        | 0 - 64d               | ( 2)  |
| N  | 3 | Width Label-Logo    | 0 – 448d              | ( 3)  |
| N  | 3 | Length Label-Logo   | 0 – 768d              | ( 3)  |
| C  | 3 | number of Operators | 0 - 200d              | ( 3)  |
| <i>only for LM06,26 / 07,27 / 09 and LF03 / 05 from version 148<br/>and for LE06 / 07 from version 139</i> |   |                     |                       |       |
| C  | 1 | don't care          | 0d                    | ( 1)  |
| N  | 4 | don't care field 2  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 3  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 4  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 5  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 6  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 7  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 8  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 9  | 0 d                   | ( 4)  |
| N  | 4 | don't care field 10 | 0 d                   | ( 4)  |
|  |   |                     |                       | ----- |
|  |   |                     |                       | (62)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 290d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale-Number | 0 - 64d               | ( 2)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (16)  |

## Access Code: 291

### Function: Load a Label-Logo to LP/M

Übertragen einer Logo-Datei für Etiketten an die Waagen(n)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      | 2/a  |      | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  |      |      | 2/a  |

#### Command (delete or read) / Response (delete)

|   |   |              |  |          |
|---|---|--------------|--|----------|
| N | 1 | CMD/RSP      | 0d/1,3d  | ( 1)     |
| N | 5 | Code         | 291d   | ( 5)     |
| F | 4 | Control      | Access   Key   Status  | ( 4)     |
| N | 4 | Department   | 0 - 9999d  | ( 4)     |
| N | 2 | Scale-Number | 0 - 64d  | ( 2)     |
| N | 3 | Line number  | 0 - 768d<br><i>n = 0 – 768 (1 Line per 1 Pixel Height of the Bitmap)</i>       | ( 3)     |
| C | n | Bit-values   | ASCII-characters<br><i>n = 0 – 112 (per Block 4 Pixel of the Bitmap-Width)</i> | (n)      |
|   |   |              |  | -----    |
|   |   |              |  | (n + 19) |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |  |       |
|---|---|--------------|--|-------|
| N | 1 | CMD/RSP      | 0d/1,3d  | ( 1)  |
| N | 5 | Code         | 291d   | ( 5)  |
| F | 4 | Control      | Access   Key   Status  | ( 4)  |
| N | 4 | Department   | 0 - 9999d  | ( 4)  |
| N | 2 | Scale-Number | 0 - 64d  | ( 2)  |
| N | 3 | Line number  | 0 - 768d<br><i>n = 0 – 768 (1 Line per 1 Pixel Height of the Bitmap)</i> | ( 3)  |
|   |   |              |  | ----- |
|   |   |              |  | (19)  |

**Access Code: 292****Function: Additional for Standard Label-Parameters (SC, SS, Total, PP1, INET)**

Values for Line spacing, Font size, Label separation and Separation tolerance (only for LP Appl 06, 26, 07, 27, 08, 28, LF03 and L2 03, 33)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  |      |      | 2/a  |

**Command (delete or read) / Response (delete)**

|   |   |                         |   |      |
|---|---|-------------------------|---|------|
| N | 1 | CMD/RSP                 | 0d/1,3d   | ( 1) |
| N | 5 | Code                    | 292d  | ( 5) |
| F | 4 | Control                 | Access   Key   Status   | ( 4) |
| N | 4 | Department              | 0 - 9999d   | ( 4) |
| N | 2 | Scale-Number            | 0 - 64d   | ( 2) |
| N | 1 | Label Definition Number | 0 - 3d<br><i>0d = Self-serve Label</i><br><i>1d = Service Counter Label</i><br><i>2d = Total Label</i><br><i>3d = Pre-Pack Label</i><br><i>4d = INET-label *)</i><br><i>*) ⇒ only for LM06,26,07,27 from V150 / LF03,05 from V150 / LE06,07 from V141</i> | ( 1) |

**Line Spacing in Dots**

|   |   |                      |          |      |
|---|---|----------------------|----------|------|
| N | 3 | LS Ingredients       | 0 – 999d | ( 3) |
| N | 3 | LS Text Packing date | 0 – 999d | ( 3) |
| N | 3 | LS Text Sell-by Date | 0 – 999d | ( 3) |
| N | 3 | LS Text Use-by Date  | 0 – 999d | ( 3) |
| N | 3 | LS Organisation name | 0 – 999d | ( 3) |
| N | 3 | LS Advertising Text  | 0 – 999d | ( 3) |
| N | 3 | LS Direct Text       | 0 – 999d | ( 3) |

**Label Separation and Tolerance in Dots (only for LP)**

|   |   |                      |  |      |
|---|---|----------------------|--|------|
| N | 3 | Label Separation     | 0 – 200d<br><i>0 – 099d with 4-Dot Printer</i><br><i>0 – 200d with 8-Dot-Printer</i> | ( 3) |
| N | 2 | Tolerance Separation | 0 – 99d  | ( 2) |

**Font Size**

|   |   |                      |         |      |
|---|---|----------------------|---------|------|
| N | 2 | FS Text Packing date | 0 – 40d | ( 2) |
| N | 2 | FS Text Sell-by date | 0 – 40d | ( 2) |
| N | 2 | FS Text Use-by date. | 0 – 40d | ( 2) |
| N | 2 | FS Organisation name | 0 – 40d | ( 2) |
| N | 2 | FS Advertising text  | 0 – 40d | ( 2) |

|   |   |        |      |      |
|---|---|--------|------|------|
| F | 4 | Flag 1 | Flag | ( 4) |
|---|---|--------|------|------|

| Bit  | Meaning             | value                     |
|------|---------------------|---------------------------|
| 0    | Kind of device-Font | 0 = L2-Font / 1 = LP-Font |
| 1-15 |                     | not used                  |

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(57)**Command (delete or read) / Response (create, modify or delete)**

|   |   |                         |  |      |
|---|---|-------------------------|--|------|
| N | 1 | CMD/RSP                 | 0d/1,3d  | ( 1) |
| N | 5 | Code                    | 292d   | ( 5) |
| F | 4 | Control                 | Access   Key   Status<br><i>1 – delete can't be used</i> | ( 4) |
| N | 4 | Department              | 0 - 9999d  | ( 4) |
| N | 2 | Scale-Number            | 0 - 64d  | ( 2) |
| N | 1 | Label Definition Number | 0 - 3d   | ( 1) |

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(17)

**Access Code: 293****Function: addition label types (LP/M) – printing direct texts / label texts**

positioning of 30 direct texts (per column) and / or of 30 label texts (per line) for a label layout

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2/a  |      | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

**Command (delete or read) / Response (delete)**

|   |        |                     |  |                |
|---|--------|---------------------|--|----------------|
| N | 1      | CMD/RSP             | 0d/1,3d  | ( 1)           |
| N | 5      | Code                | 293d   | ( 5)           |
| F | 4      | Control             | Access   Key   Status  | ( 4)           |
| N | 4      | Department          | 0d   | ( 4)           |
| N | 2      | Scale-Number        | 0d   | ( 2)           |
| N | 3      | label def. N°       | 0 - 32<br><i>0d = no label</i>   | ( 2) from 17   |
| C | 2 [30] | SI letter size      | 0 - 40d<br><i>0 = no text is printed</i><br><br><i>value 1 ⇒ letter size for text 1</i><br><i>value 2 ⇒ letter size for text 2</i><br><i>...</i><br><i>value 30 ⇒ letter size for text 30</i>  | (60) from 19   |
| C | 1 [30] | SI print direction  | 0 – 3d<br><i>0d = 0 degrees</i><br><i>1d = 90 degrees</i><br><i>3d = 270 degrees</i><br><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>   | (30) from b 79 |
| C | 3 [30] | SI x-Pos. (in Dots) | 1 - 448d<br><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>   | (90) from 109  |
| C | 3 [30] | SI y-Pos. (in Dots) | 1 - 816d<br><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>   | (90) from 199  |
| C | 5 [30] | SI Text             | ASCII-characters<br><br><i>D1 – D10 ⇒ PLU-direct text column 1 to 10</i><br><i>(see assignment with ID 269)</i><br><br><i>ET1 – ET12 ⇒ PLU-label text from charcter 1 to 12</i><br><i>(see assignment with ID 253)</i><br><br><i>every SI-Text must be filled with spaces up to 5 characters</i><br><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i> | (150) from 289 |

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(438)**Command (delete or read) / Response (create, modify or delete)**

|   |   |               |                                |      |
|---|---|---------------|--------------------------------|------|
| N | 1 | CMD/RSP       | 0d/1,3d                        | ( 1) |
| N | 5 | Code          | 293d                           | ( 5) |
| F | 4 | Control       | Access   Key   Status          | ( 4) |
| N | 4 | Department    | 0d                             | ( 4) |
| N | 2 | Scale-Number  | 0d                             | ( 2) |
| N | 3 | label def. N° | 0 - 32<br><i>0d = no label</i> | ( 2) |

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(18)



## Access Code: 294

### Function: create additional label texts (LP/M)

create 100 additional label texts, which can be printed on the label in assignment of the PLU (Code 1\* / 70)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2/a  |      | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

#### Command (delete or read) / Response (delete)

|   |    |              |                       |       |
|---|----|--------------|-----------------------|-------|
| N | 1  | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5  | Code         | 294d                  | ( 5)  |
| F | 4  | Control      | Access   Key   Status | ( 4)  |
| N | 4  | Department   | 0d                    | ( 4)  |
| N | 2  | Scale-Number | 0d                    | ( 2)  |
| C | 3  | text number  | 1 - 100d              | ( 3)  |
| C | 40 | text         | ASCII-Zeichen         | (40)  |
|   |    |              |                       | ----- |
|   |    |              |                       | (59)  |

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Code         | 294d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0d                    | ( 4)  |
| N | 2 | Scale-Number | 0d                    | ( 2)  |
| C | 3 | text number  | 1 - 100d              | ( 3)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (19)  |

- maximum 12 of the 100 label texts can be assigned to every PLU by using the additional article number (Migros-number, ID 253)
- the texts assigned to a PLU are printed on the label in the fields ET1 to ET 12 which are defined by using ID 293

**Access Code: 295****Function: addition for label types (LP/M) – postioning 10 logo-extracts**

printing of maximum 10 logo extracts (logo sent with ID 291) on LP/M labels

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2/a  |      | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  |      |      |      |      | 2/a  |

**Command (delete or read) / Response (delete)**

|   |         |                     |  |                |
|---|---------|---------------------|--|----------------|
| N | 1       | CMD/RSP             | 0d/1,3d  | ( 1)           |
| N | 5       | Code                | 295d   | ( 5)           |
| F | 4       | Control             | Access   Key   Status  | ( 4)           |
| N | 4       | Department          | 0d   | ( 4)           |
| N | 2       | Scale-Number        | 0d   | ( 2)           |
| N | 3       | label def. N°       | 0 - 32<br><i>0d = no label</i>   | ( 2) from 17   |
| C | 2 [30]  | SI letter size      | 0 - 40d<br><i>0 = label extract is not printed</i><br><i>1 = label extract is printed</i><br><br><i>value 1 ⇒ letter size for text 1</i><br><i>value 2 ⇒ letter size for text 2</i><br><i>...</i><br><i>value 10 ⇒ letter size for text 10</i>   | (60) from 19   |
| C | 1 [10]  | SI print direction  | 0 - 3<br><i>0d = 0 degrees</i><br><i>1d = 90 degrees</i><br><i>3d = 270 degrees</i><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>  | (10) from 39   |
| C | 3 [10]  | SI x-Pos. (in Dots) | 1 - 448d<br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>   | (30) from 49   |
| C | 3 [10]  | SI y-Pos. (in Dots) | 1 - 816d<br><i>⇒ value 1 to 30 like discribed for the SI letter size</i>   | (30) from 79   |
| C | 20 [10] | SI Text             | ASCII-characters<br><br><i>SI-Text for every logo extract</i><br><i>Expppypppxlpppylppp</i><br><i>E</i> ⇒ SI-Sequenz for logo extract<br><i>ppp</i> ⇒ number Bitmap-Pixel<br><i>xppp</i> ⇒ extract begins at ppp Pixels in X-direction<br><i>yppp</i> ⇒ extract begins at ppp Pixels in Y-direction<br><i>xlppp</i> ⇒ extract size is ppp Pixels in X-direction<br><i>ylppp</i> ⇒ extract size is ppp Pixels in Y-direction<br><i>(on the printer is one pixel of the BMP-file in accordance with one Dot)</i><br><i>⇒ value 1 to 30 like discribed for the SI letter size</i> | (200) from 109 |
|   |         |                     |  | -----<br>(308) |

**Command (delete or read) / Response (create, modify or delete)**

|   |   |               |                                |               |
|---|---|---------------|--------------------------------|---------------|
| N | 1 | CMD/RSP       | 0d/1,3d                        | ( 1)          |
| N | 5 | Code          | 295d                           | ( 5)          |
| F | 4 | Control       | Access   Key   Status          | ( 4)          |
| N | 4 | Department    | 0d                             | ( 4)          |
| N | 2 | Scale-Number  | 0d                             | ( 2)          |
| N | 3 | label def. N° | 0 - 32<br><i>0d = no label</i> | ( 2)          |
|   |   |               |                                | -----<br>(18) |

## Access Code: 296

### Function: Shortcode-Text long

Shortcodekey – if this value is coded in an EAN128 or EAN13 (see Access Code 288), it is possible to read the matching Shortcode-Number with an barcode scanner

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      | 2    |

#### Command (create or modify) / Response (read)

|  |       |                |                       |          |
|--|-------|----------------|-----------------------|----------|
| N  | 1     | CMD/RSP        | 0d/1,3d               | ( 1)     |
| N  | 5     | Access Code    | 296d                  | ( 5)     |
| F  | 4     | Control        | Access   Key   Status | ( 4)     |
| N  | 4     | Department     | 0 - 9999d             | ( 4)     |
| <i>LP ⇒ with LM/LF from Version 148 and<br/>LE from Version 139</i>                                    |       |                |                       |          |
| N  | 2     | Scale Number   | 0d                    | ( 2)     |
| N  | 3     | Shortcode-No.  | 1 – 100d resp. 230d   | ( 3)     |
| <i>230d only with LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V 146, bC from 114</i> |       |                |                       |          |
| C  | 1-100 | Shortcode-Text | 1 – 100 Zeichen       | (1-100)  |
|  |       |                |                       | -----    |
|  |       |                |                       | (20-119) |

*the length of the Shortcode-Text ist variable from 1 to 100 characters*

#### Command (delete or read) / Response (create, modify or delete)

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N   | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N   | 5 | Access Code  | 296d                  | ( 5)  |
| F   | 4 | Control      | Access   Key   Status | ( 4)  |
| N   | 4 | Department   | 0 - 9999d             | ( 4)  |
| <i>LP ⇒ with LM/LF form Version 148 and<br/>LE from Version 139</i> |   |              |                       |       |
| N   | 2 | Scale Number | 0d                    | ( 2)  |
| N   | 3 | Shortcode-Nr | 1 – 100d              | ( 3)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (19)  |

**Access Code: 297****Function: Info PLU-File (number of records / used records / free records)**

gives informations about the status of the PLU-File of the scale database (for LM/LF from V148 and LE from V139)

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      | 2    |

**Command (read only)**

|   |   |              |                             |      |
|---|---|--------------|-----------------------------|------|
| N | 1 | CMD/RSP      | 0d                          | ( 1) |
| N | 5 | Access Code  | 297d                        | ( 5) |
| F | 4 | Control      | Access   Key   Status       | ( 4) |
|   |   |              | <i>read only</i>            |      |
| N | 4 | Department   | 1 - 9999d                   | ( 4) |
| N | 2 | Scale Number | 1 – 63d                     | ( 2) |
| N | 5 | File-Number  | 00020 – 00023d              | ( 5) |
|   |   |              | 00020 ⇒ Article Label datas |      |
|   |   |              | 00021 ⇒ Article ingredients |      |
|   |   |              | 00023 ⇒ Article PLU-datas   |      |

-----  
(21)**Response (read)**

|   |   |              |                             |      |
|---|---|--------------|-----------------------------|------|
| N | 1 | CMD/RSP      | 1,3d                        | ( 1) |
| N | 5 | Access Code  | 297d                        | ( 5) |
| F | 4 | Control      | Access   Key   Status       | ( 4) |
| N | 4 | Department   | 1 - 9999d                   | ( 4) |
| N | 2 | Scale Number | 1 – 63d                     | ( 2) |
| N | 5 | File-Number  | 00020 – 00023d              | ( 5) |
|   |   |              | 00020 ⇒ Article Label datas |      |
|   |   |              | 00021 ⇒ Article ingredients |      |
|   |   |              | 00023 ⇒ Article PLU-datas   |      |

|   |   |                   |            |      |
|---|---|-------------------|------------|------|
| N | 5 | number of records | 0 – 65536d | ( 5) |
| N | 5 | used records      | 0 – 65536d | ( 5) |
| N | 5 | free records      | 0 – 65536d | ( 5) |

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(46)

**Access Code: 299****Function: Expansion for staggered block price – additional staggered block prices 3, 4, 5**

additional staggered block prices 1 and 2 (see command 207)

only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V 146 and LC03/05 from V 112

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    |      | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      | 2    |

**Command (create or modify) / Response (read)**

|   |   |                         |                       |      |
|---|---|-------------------------|-----------------------|------|
| N | 1 | CMD/RSP                 | 0d                    | ( 1) |
| N | 5 | Access Code             | 299d                  | ( 5) |
| F | 4 | Control                 | Access   Key   Status | ( 4) |
| N | 4 | Department              | 1 - 9999d             | ( 4) |
| N | 2 | Scale Number            | 1 – 63d               | ( 2) |
|   |   |                         |                       |      |
| N | 6 | PLU Number              | 1 - 999999d           | ( 6) |
| N | 8 | Staggered block price 3 | +/- 0 - 999999(9)d    | ( 8) |
| N | 8 | Staggered block price 4 | +/- 0 - 999999(9)d    | ( 8) |
| N | 8 | Staggered block price 5 | +/- 0 - 999999(9)d    | ( 8) |
| N | 8 | Staggered block limit 3 | Piece / Weight (g)    | ( 8) |
| N | 8 | Staggered block limit 4 | Piece / Weight (g)    | ( 8) |
| N | 8 | Staggered block limit 5 | Piece / Weight (g)    | ( 8) |

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(70)**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |      |
|---|---|--------------|-----------------------|------|
| N | 1 | CMD/RSP      | 1,3d                  | ( 1) |
| N | 5 | Access Code  | 299d                  | ( 5) |
| F | 4 | Control      | Access   Key   Status | ( 4) |
| N | 4 | Department   | 1 - 9999d             | ( 4) |
| N | 2 | Scale Number | 1 – 63d               | ( 2) |
|   |   |              |                       |      |
| N | 6 | PLU Number   | 1 - 999999d           | ( 6) |

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(22)

|  |
|--|
| GRATIS-Quantities are defined with two Staggered limit values of Access Code 207 |
|--|

**Access Code: 300****Function: PLU-allocation for direct text no., shortcode no., staggered price 3,4,5 to PLU's**

additional article data (PLU data) / can replace Access Code 269, 288 and 299 /

⇒ only for LM06/26/07/27 from V155, LF03/05 from V155, Le06/07 from V146, bC/bPro from V114

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |        |                            |                       |      |
|---|--------|----------------------------|-----------------------|------|
| N | 1      | CMD/RSP                    | 0d                    | ( 1) |
| N | 5      | Access Code                | 300d                  | ( 5) |
| F | 4      | Control                    | Access   Key   Status | ( 4) |
| N | 4      | Department                 | 1 - 9999d             | ( 4) |
| N | 2      | Scale Number               | 1 – 63d               | ( 2) |
|   |        |                            |                       |      |
| N | 6      | PLU Number                 | 1 - 999999d           | ( 6) |
| C | 4 [10] | Direct text<br>line number | 0000 – 0229           | 40)  |

for each column 1 to 10 the respective line number

**Note on Direct text Numbers:**

Structure of the Direct Text table:

| Column | 1    | 2    | 3    | ..... | 10    |      |
|--------|------|------|------|-------|-------|------|
| Line   | 0    | Text | Text | Text  | ..... | Text |
| 0001   | Text | Text | Text | ..... | Text  |      |
| 0002   | Text | Text | Text | ..... | Text  |      |
| 0003   | Text | Text | Text | ..... | Text  |      |
| ...    | Text | Text | Text | ..... | Text  |      |
| 0229   | Text | Text | Text | ..... | Text  |      |

Direct Texts are entered into a 10-column table. Line 0 contains the "heading" of the respective column. 229 different texts can be entered in lines 1 to 299 of each column.

When using Access Code 300 to refer to a text in the table, the corresponding line number of the selected text in each of the 10 columns is quoted.

Example for the coloured marked texts: 000202990001.....0003

|   |   |                  |   |      |
|---|---|------------------|---|------|
| N | 4 | Shortcode-Nummer | 0000 – 0106d resp. to 236d<br>max-value 106 or 236 depends upon the setting<br>in the scale configuration (Access Code 279) | ( 4) |
|---|---|------------------|---|------|

| definiert in Waagen-Konf |                    |  |
|--------------------------|--------------------|--|
| 0                        | 0                  | ⇒ all permissible  |
| 1–100                    | 1-230 <sup>3</sup> | ⇒ PLU permitted to book only with Shortcode  |
| 101                      | 231 <sup>3</sup>   | ⇒ PLU permitted to book only with Direct-Texts   |
| 102                      | 232                | ⇒ PLU permitted to book only with Shortcode<br>Shortcode not yet distinct                      |
| 103                      | 233 <sup>3</sup>   | ⇒ no Direct-Text and no Shortcode  |
| 104 <sup>1</sup>         | 234 <sup>3</sup>   | ⇒ assign Shortcode form EAN128<br>(in combination with ID 296))                                |
| 105 <sup>1</sup>         | 235 <sup>3</sup>   | ⇒ assign Shortcode form EAN13<br>(in combination with ID 296)                                  |
| 106 <sup>2</sup>         | 236 <sup>3</sup>   | ⇒ Shortcode – feed 20 characters text or number<br>(for MT-E customer Caprabo / no turn-overs) |

F 4 Article Flag ( 4)

| Bit    | Meaning                      | Value             |
|--------|------------------------------|-------------------|
| 0      | PLU Tare PP1 Mode            | 0 = ja / 1 = nein |
| 1      | PLU Tare Service Couter Mode | 0 = ja / 1 = nein |
| 2      | PLU Tare Inventory Mode      | 0 = ja / 1 = nein |
| 3      | PLU Tare Self Service Mode   | 0 = ja / 1 = nein |
| 4      | PLU Tare Inet Mode           | 0 = ja / 1 = nein |
| 5 – 15 | Don't Care                   | ---               |

N 8 Staggered block price 3 +/- 0 - 999999(9)d (8)  
 N 8 Staggered block price 4 +/- 0 - 999999(9)d (8)  
 N 8 Staggered block price 5 +/- 0 - 999999(9)d (8)  
 N 8 Staggered block limit 3 Stück / Gewicht (g) (8)  
 N 8 Staggered block limit 4 Stück / Gewicht (g) (8)  
 N 8 Staggered block limit 5 Stück / Gewicht (g) (8)

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(118)

**Command (delete or read) / Response (create, modify or delete)**

N 1 CMD/RSP 1,3d ( 1)  
 N 5 Access Code 300d ( 5)  
 F 4 Control Access | Key | Status ( 4)  
 N 4 Department 1 - 9999d ( 4)  
 N 2 Scale Number 1 – 63d ( 2)  
  
 N 6 PLU Number 1 - 999999d ( 6)

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(22)

Access Code 300 replaces respectively overwrites the Access Code 269, 288 and 299  
 GRATIS-Quantities are defined with the two Limit values of Access Code 207

**Access Code: 301****Function: Direct Text Table (per line)– can replace Access Code 270**

handling of direct texts / create the table with direct texts / can be used for direct text numbers from 0 to 229

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|  |         |                             |                       |                |
|--|---------|-----------------------------|-----------------------|----------------|
| N  | 1       | CMD/RSP                     | 0d/1,3d               | ( 1)           |
| N  | 5       | Access Code                 | 301d                  | ( 5)           |
| F  | 4       | Control                     | Access   Key   Status | ( 4)           |
| N  | 4       | Department                  | 0 - 9999d             | ( 4)           |
| N  | 2       | Scale Number                | 0                     | ( 2)           |
| N  | 4       | line number.                | 0 - 0300d             | ( 4)           |
| C  | 20 [10] | Direct Text ASCII character |                       | (200)          |
| <i>the line numbers of selected text in<br/>columns 1 to 10 consecutively<br/>(see Code 300)</i> |         |                             |                       |                |
|  |         |                             |                       | -----<br>(220) |

Note on Direct text Numbers:

Structure of the Direct Text Table:

| Column | 1    | 2    | 3    | ..... | 10    |      |
|--------|------|------|------|-------|-------|------|
| Line   | 0    | Text | Text | Text  | ..... | Text |
| 0001   | Text | Text | Text | ..... | Text  |      |
| 0002   | Text | Text | Text | ..... | Text  |      |
| 0003   | Text | Text | Text | ..... | Text  |      |
| ...    | Text | Text | Text | ..... | Text  |      |
| 0229   | Text | Text | Text | ..... | Text  |      |

*Each line contains the text from the 10 columns, at 20 characters per column*

only for LM06/26/07/27 from V155, LF03/05 from V155, Le06/07 from V 146, bC from V114

**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |               |
|---|---|--------------|-----------------------|---------------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)          |
| N | 5 | Access Code  | 301d                  | ( 5)          |
| F | 4 | Control      | Access   Key   Status | ( 4)          |
| N | 4 | Department   | 0 - 9999d             | ( 4)          |
| N | 2 | Scale Number | 0                     | ( 2)          |
| N | 4 | Zeilen-Nr.   | 0 - 0229d             | ( 4)          |
|   |   |              |                       | -----<br>(20) |



**Access Code: 302****Function: Shortcode data with direct text 0 – 229 / can replace Access Code 287**

Create Shortcode data (number, name, direct text allocation, quantity) / can be used for direct text numbers 0 to 230

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |    |                       |  |       |
|---|----|-----------------------|--|-------|
| N | 1  | CMD/RSP               | 0d/1,3d  | ( 1)  |
| N | 5  | Access Code           | 302d   | ( 5)  |
| F | 4  | Control               | Access   Key   Status  | ( 4)  |
| N | 4  | Department            | 0 - 9999d  | ( 4)  |
| N | 2  | Scale Number          | 0d   | ( 2)  |
| N | 4  | Shortcode-No          | 0001 – 0100 respectively 0230d<br><i>230d only for LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V 146, bC from V114</i> | ( 4)  |
| C | 20 | Shortcode-Text        |  | (20)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 4  | Direct-Text Line No.  | 0 – 0229d  | ( 4)  |
| N | 7  | supplied weight       | 0 – 9999999d   | ( 7)  |
| N | 7  | supplied No. of units | 0 – 9999999d   | ( 7)  |
|   |    |                       |  | ----- |
|   |    |                       |  | (94)  |

⇒ more detailed information to the direct text line number see Access Code 269  
 ⇒ if Short Codes are handled per department is defined in the Scale Configuration command 279  
 ⇒ only for LM06/26/07/27 from V 155, LF03/05 from V155 and Le06/07 from V 146

**Command (delete or read) / Response (create, modify or delete)**

|   |   |              |                       |       |
|---|---|--------------|-----------------------|-------|
| N | 1 | CMD/RSP      | 0d/1,3d               | ( 1)  |
| N | 5 | Access Code  | 302d                  | ( 5)  |
| F | 4 | Control      | Access   Key   Status | ( 4)  |
| N | 4 | Department   | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number | 0d                    | ( 2)  |
| N | 3 | Shortcode-Nr | 1 – 0100 bzw 0230d    | ( 4)  |
|   |   |              |                       | ----- |
|   |   |              |                       | (20)  |

**Access Code: 305****Function: Request in which mode the scale is located currently**

only read / only for application LM06/26/07/27 from V157, LF03/05 from V157, Le06/07 from V148, bC/bPro from V112

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      |      |

**Command (read)**

|   |   |              |           |       |
|---|---|--------------|-----------|-------|
| N | 1 | CMD/RSP      | 0d        | ( 1)  |
| N | 5 | Access Code  | 305d      | ( 5)  |
| F | 4 | Control      | 0d        | ( 4)  |
| N | 4 | Department   | 1 - 9999d | ( 4)  |
| N | 2 | Scale Number | 1 – 63d   | ( 2)  |
| N | 5 | Record-Type  | 00000d    | ( 5)  |
|   |   |              |           | ----- |
|   |   |              |           | (21)  |

**Response (read)**

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | CMD/RSP      | 1,3d           | ( 1) |
| N | 5 | Access Code  | 305d           | ( 5) |
| F | 4 | Control      | 0d             | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 – 63d        | ( 2) |
| N | 5 | Record-Type  | 00001 – 00013d | ( 5) |

| <b>Record-Type</b> | <b>aktiver Mode in der Waage</b> |
|--------------------|----------------------------------|
| 1                  | Service Counter Mode             |
| 2                  | Self Service Mode                |
| 3                  | PP1 Mode                         |
| 4                  | Code-Mode                        |
| 5                  | ---                              |
| 6                  | Inventory Mode                   |
| 7                  | ---                              |
| 8                  | ---                              |
| 9                  | Ordering Mode                    |
| 10                 | Wholesale (weight in kg)         |
| 11                 | Rewrap Mode                      |
| 12                 | Inventory Self Service Mode      |
| 13                 | INET-Mode                        |

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(21)

**Access Code: 306****Function: masking for code menu 789 / extract code-menu 1 - data maintenance**

in code menu 789 can separate menu items of the data maintenance mode (Code 1) shown or hidden

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      | 2    | 2    | 2    | 2    | 2/e  | 2    | 2    | 2/e  |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |   |                        |                       |      |
|---|---|------------------------|-----------------------|------|
| N | 1 | CMD/RSP                | 0d                    | ( 1) |
| N | 5 | Access Code            | 306d                  | ( 5) |
| F | 4 | Control                | Access   Key   Status | ( 4) |
| N | 4 | Department             | 0 - 9999d             | ( 4) |
| N | 2 | Scale Number           | 0 – 63d               | ( 2) |
| N | 3 | Record-Nummer          | 0d                    | ( 3) |
| F | 4 | <b>Flag 1 ⇒ Mask 1</b> |                       | ( 4) |

| Bit | Menu item 1 data entry | Meaning  | Value            |
|-----|------------------------|--|------------------|
| 0   | 01                     | Price change   | 0 = yes / 1 = no |
| 1   | 02                     | create articles  | 0 = yes / 1 = no |
| 2   | 03                     | copy articles  | 0 = yes / 1 = no |
| 3   | 04                     | ... further items see <b>Hand book</b> for the scale application in chapter data entry | 0 = yes / 1 = no |

Bit-allocation of **data maintenance item 01 to 16**

| Bit       | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Menu item | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 09 | 08 | 07 | 06 | 05 | 04 | 03 | 02 | 01 |
| visible   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| hidden    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|   |   |                        |  |      |
|---|---|------------------------|--|------|
| F | 4 | <b>Flag 1 ⇒ Mask 2</b> |  | ( 4) |
|---|---|------------------------|--|------|

Bit-allocation of **data maintenance item 17 bis 32**

| Bit       | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Menu item | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| visible   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| hidden    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|   |   |                        |  |      |
|---|---|------------------------|--|------|
| F | 4 | <b>Flag 1 ⇒ Mask 3</b> |  | ( 4) |
|---|---|------------------------|--|------|

Bit-allocation of **data maintenance item 33 bis 48**

| Bit       | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Menu item | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 |
| visible   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| hidden    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|   |   |                        |  |      |
|---|---|------------------------|--|------|
| F | 4 | <b>Flag 1 ⇒ Mask 4</b> |  | ( 4) |
|---|---|------------------------|--|------|

Bit-allocation of **data maintenance item 49 bis 64**

| Bit       | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Menu item | 64 | 63 | 62 | 61 | 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 |
| visible   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| hidden    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|   |   |                        |  |      |
|---|---|------------------------|--|------|
| F | 4 | <b>Flag 1 ⇒ Mask 5</b> |  | ( 4) |
|---|---|------------------------|--|------|

Bit-allocation of **data maintenance item 65 bis 80**

| Bit       | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  | 0  |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Menu item | 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 |
| visible   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| hidden    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  |

|   |   |                                  |  |      |
|---|---|----------------------------------|--|------|
| F | 4 | Flag 1 ⇒ Mask 6 ⇒ <b>Reserve</b> |  | ( 4) |
| F | 4 | Flag 1 ⇒ Mask 7 ⇒ <b>Reserve</b> |  | ( 4) |

-----  
(47)

**Command (delete or read) / Response (create, modify or delete)**

|   |   |               |                       |       |
|---|---|---------------|-----------------------|-------|
| N | 1 | CMD/RSP       | 1,3d                  | ( 1)  |
| N | 5 | Access Code   | 306d                  | ( 5)  |
| F | 4 | Control       | Access   Key   Status | ( 4)  |
| N | 4 | Department    | 0 - 9999d             | ( 4)  |
| N | 2 | Scale Number  | 0 – 63d               | ( 2)  |
| N | 3 | Record-Nummer | 0d                    | (3)   |
|   |   |               |                       | ----- |
|   |   |               |                       | (19)  |

|   |
|---|
| only for LM06/26/07/27 from V157, LF03/05 from V157, Le06/07 from V148, bC/bPro from V112 |
|---|

**Access Code: 309****Function: Event Engine Format, Mira-e and bC**

Access Code to send the control commands for the Event-Engine via Ethernet, only for bc/bPro from V111, Le from Vxxx

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
| 2/e  | 2/e  | 2/e  |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/e  |      |      | 2/e  |      |      |      |      |      |

**Command (create or modify) / Response (read)**

|   |   |               |           |      |
|---|---|---------------|-----------|------|
| N | 1 | CMD/RSP       | 0d        | ( 1) |
| N | 5 | Access Code   | 309d      | ( 5) |
| F | 4 | Control       | 0d        | ( 4) |
| N | 4 | Department    | 1 - 9999d | ( 4) |
| N | 2 | Scale Number  | 1 – 63d   | ( 2) |
| N | 5 | Function-Code | 0 – 9999d | ( 4) |

0600 ⇒ Fest- / Pictogramm-Taste  
0800 ⇒ Verkäufer-Taste  
0900 ⇒ Queue-Taste

|   |   |  |  |      |
|---|---|--|--|------|
| F | 4 | Flag 1 ⇒ activate the Event Engine for modes |  | ( 4) |
|---|---|--|--|------|

| Bit    | Meaning            | Value            |
|--------|--------------------|------------------|
| 0      | Sales-Mode         | 0 = no / 1 = yes |
| 1      | Self Service Mode  | 0 = no / 1 = yes |
| 2      | Prepacking Mode    | 0 = no / 1 = yes |
| 3      | Manual Weight Mode | 0 = no / 1 = yes |
| 4      | Rewrap-Mode        | 0 = no / 1 = yes |
| 5      | Inet-Mode          | 0 = no / 1 = yes |
| 6      | Inventory-Mode     | 0 = no / 1 = yes |
| 7 – 15 | don't care         |                  |

|   |    |                    |  |      |
|---|----|--------------------|--|------|
| C | 10 | Format HEADER Text |  | (10) |
|---|----|--------------------|--|------|

⇒ 10 characters for the Header Text are fix

⇒ 10 blanks mean that there is no Header-Text

Definition table for Meta-Character, which can be formatted like printf

| Zeichen | Bedeutung   | to use for Function-Code |      |      |
|---------|---|--------------------------|------|------|
|         |   | 0600                     | 0800 | 0900 |
| w       | device number   | x                        | x    | x    |
| n       | receipt number  |                          | x    |      |
| O       | Operator  |                          | x    | x    |
| K       | Scancode of the key   | x                        | x    | x    |
| F       | Functioncode  | x                        | x    | x    |
| D       | Department  | x                        | x    |      |
| P       | PLU-Number  | x                        | x    |      |
| L       | TLU (PLU-Text)  | x                        | x    |      |
| B       | booking type  | x                        | x    |      |
| S       | Shortcode   | x                        | x    |      |
| d       | date  | x                        | x    | x    |
| t       | time  | x                        | x    | x    |
| I       | IP-Adresse of the transmitter   | x                        | x    | x    |
| r       | Priority department   | x                        | x    | x    |
| T       | Tare  |                          | x    |      |
| A       | Amount  |                          | x    |      |
| p       | Price   |                          | x    |      |
| u       | increase / decrease   |                          | x    |      |
| W       | weight / pieces   |                          | x    |      |
| v       | booking or storno   |                          | x    |      |
| y       | price type  |                          | x    |      |
| R       | Preset number   | x                        |      |      |
| cxxx    | 3 character xxx define the ASCII Code of the character to be sent<br>Beispiele:<br>c123 ⇒ {<br>c077 ⇒ M | x                        | x    | x    |

- 00030900000000000008000001XBOOKINGXX%02w%02D%06P

|   |   |               |                                 |       |
|---|---|---------------|---------------------------------|-------|
| N | 1 | CMD/RSP       | 1,3d                            | ( 1)  |
| N | 5 | Access Code   | 309d                            | ( 5)  |
| F | 4 | Control       | 0d                              | ( 4)  |
| N | 4 | Department    | 1 - 9999d                       | ( 4)  |
| N | 2 | Scale Number  | 1 – 63d                         | ( 2)  |
| N | 5 | Function-Code | 0 – 9999d                       | ( 4)  |
|   |   |               | 0600 ⇒ Fest- / Pictogramm-Taste |       |
|   |   |               | 0800 ⇒ Verkäufer-Taste          |       |
|   |   |               | 0900 ⇒ Queue-Taste              |       |
|   |   |               |                                 | ----- |
|   |   |               |                                 | (20)  |

ME 22 007 410 / 2007-12

## IV-C Individual Sales - Access Codes 4XX

### Definition of Access Control for Selective Sales Querying

The command part (i.e. command message) of this Access Code allows the access type, key, sales level and sales type to be specified in its Control Field. The response part (i.e. the response message from the scale) contains the updated status in its Control Field.

| Access type | Meaning               | Description                           |
|-------------|-----------------------|---------------------------------------|
| __ _ 2      | read equal            | read the given record                 |
| __ _ 3      | read greater or equal | read the given record or next highest |
| __ _ 4      | read less or equal    | read the given record or next lowest  |
| __ _ 5      | read greater          | read the next highest record          |
| __ _ 6      | read less             | read the next lowest record           |

| Key     | Meaning                           | Description                          |
|---------|-----------------------------------|--------------------------------------|
| _ _ 0 _ | Primary key                       | first field after the scale number   |
| _ _ 1 _ | Secondary key 1                   | second field after the scale number  |
| _ _ 2 _ | Secondary key 2                   | third field after the scale number   |
| _ _ 3 _ | Secondary key 3                   | fourth field after the scale number  |
| _ _ 4 _ | only PLU/Article Group with sales | for Access Codes 406, 408            |
| _ _ 8 _ | only PLUs on special offer        | for Access Code 408 (Special Offers) |

| Data Server | Meaning       | Description                             |
|-------------|---------------|---|
| _ 0 _ _     | Sales level 1 |   |
| _ 1 _ _     | Sales level 2 |   |
| _ 2 _ _     | Sales level 3 | only for L2                             |
| _ 3 _ _     | Sales level 4 | only for L2                             |
| _ 0 _ _     | Sales type    | Service counter or cash register sales  |
| _ 4 _ _     | Sales type    | Self-serve sales or Cash register Sales |
| _ 8 _ _     | Sales type    | Pre-Pack sales                          |
| _ C _ _     | Sales type    | Inventory sales                         |

To combine Sales Levels and Sales Types, the corresponding values are to be added in hexadecimal format.  
E.g. Pre-Pack sales for sales level 3 has the value of ⇒ "A"

| Status  | Meaning                | Description                             |
|---------|------------------------|---|
| 0 _ _ _ | OK                     |   |
| 1 _ _ _ | file not created       |   |
| 2 _ _ _ | no free record         |   |
| 3 _ _ _ | file corrupt           |   |
| 4 _ _ _ | not found              | record not found                        |
| 5 _ _ _ | wrong key              |   |
| 6 _ _ _ | double key             | several records exist with the same Key |
| C _ _ _ | (12) bad parameter     |   |
| D _ _ _ | (13) general error     |   |
| E _ _ _ | (14) undefined command |   |
| F _ _ _ | (15) not executable    |   |

## Access Code: 400

### Function: Store Sales

Request Sales Report for a Particular Store

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | CMD          | 0d             | ( 1)  |
| N | 5 | Code         | 400d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 0d             | ( 4)  |
| N | 2 | Scale Number | 0d             | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response

|   |    |                     |                         |                  |
|---|----|---------------------|-------------------------|------------------|
| N | 1  | RSP                 | 1,3d                    | ( 1)             |
| N | 5  | Code                | 400d                    | ( 5)             |
| F | 4  | Control             | see Definition          | ( 4)             |
| N | 4  | Department          | 0d                      | ( 4)             |
| N | 2  | Scale Number        | 0d                      | ( 2)             |
|   |    |                     |                         |                  |
| N | 11 | Sales Revenue       | (without decimal point) | (11)             |
| N | 11 | Sales by Weight     | (g)                     | (11)             |
| N | 11 | Number of Entries   |                         | (11)             |
| N | 11 | Margin              | (without decimal point) | (11) only for L2 |
| N | 11 | Number of Customers |                         | (11)             |
|   |    |                     |                         | -----            |
|   |    |                     |                         | (71)             |



## Access Code: 401

### Function: Department Sales

Request Sales Report for a Particular Department

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |              |                               |       |
|---|---|--------------|-------------------------------|-------|
| N | 1 | CMD          | 0d                            | ( 1)  |
| N | 5 | Code         | 401d                          | ( 5)  |
| F | 4 | Control      | see Definition                | ( 4)  |
|   |   |              | <i>only 0002 (read equal)</i> |       |
| N | 4 | Department   | 1 - 9999d                     | ( 4)  |
| N | 2 | Scale Number | 0d                            | ( 2)  |
|   |   |              |                               | ----- |
|   |   |              |                               | (16)  |

**Response**

|   |    |                     |                         |                  |
|---|----|---------------------|-------------------------|------------------|
| N | 1  | RSP                 | 1,3d                    | ( 1)             |
| N | 5  | Code                | 401d                    | ( 5)             |
| F | 4  | Control             | see Definition          | ( 4)             |
| N | 4  | Department          | 1 - 9999d               | ( 4)             |
| N | 2  | Scale Number        | 0d                      | ( 2)             |
| N | 11 | Sales Revenue       | (without decimal point) | (11)             |
| N | 11 | Sales in Weight     | (g)                     | (11)             |
| N | 11 | No. of Entries      |                         | (11)             |
| N | 11 | Margin              | (without decimal point) | (11) only for L2 |
| N | 11 | Number of Customers |                         | (11)             |
| N | 11 | SO Sales Revenue    | (without decimal point) | (11)             |
| N | 11 | SO Sales in Weight  | (g)                     | (11)             |
| N | 11 | SO No. of Entries   |                         | (11)             |
| N | 11 | SO Margin           | (without decimal point) | (11)             |
|   |    |                     |                         | -----            |
|   |    |                     |                         | (115)            |

## Access Code: 402

### Function: Default Department Sales

Request Default Department Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Command**

|   |   |                        |                                |       |
|---|---|------------------------|--------------------------------|-------|
| N | 1 | CMD                    | 0d                             | ( 1)  |
| N | 5 | Code                   | 402d                           | ( 5)  |
| F | 4 | Control                | see Definition                 | ( 4)  |
|   |   |                        | <i>only 0002 (read direct)</i> |       |
| N | 4 | Department             | 0d                             | ( 4)  |
| N | 2 | Scale Number           | 0d                             | ( 2)  |
| N | 4 | Default Department No. | 1 - 9999d                      | ( 4)  |
|   |   |                        |                                | ----- |
|   |   |                        |                                | (20)  |

**Response**

|   |    |                        |                         |       |
|---|----|------------------------|-------------------------|-------|
| N | 1  | RSP                    | 1,3d                    | ( 1)  |
| N | 5  | Code                   | 402d                    | ( 5)  |
| F | 4  | Control                | see Definition          | ( 4)  |
| N | 4  | Department             | 0d                      | ( 4)  |
| N | 2  | Scale Number           | 0d                      | ( 2)  |
| N | 4  | Default Department No. | 1 - 9999d               | ( 4)  |
| N | 11 | Sales Revenue          | (without decimal point) | (11)  |
| N | 11 | Sales in Weight        | (g)                     | (11)  |
| N | 11 | Number of Entries      |                         | (11)  |
| N | 11 | Margin                 | (without decimal point) | (11)  |
| N | 11 | Number of Customers    |                         | (11)  |
|   |    |                        |                         | ----- |
|   |    |                        |                         | (75)  |

## Access Code: 403

## Function: Scale Sales

### Request Scale Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

### Command

|   |   |              |                                |      |
|---|---|--------------|--------------------------------|------|
| N | 1 | CMD          | 0d                             | ( 1) |
| N | 5 | Code         | 403d                           | ( 5) |
| F | 4 | Control      | see Definition                 | ( 4) |
|   |   |              | <i>only 0002 (read direct)</i> |      |
|   |   |              | <i>or 0007 (read all)</i>      |      |
| N | 4 | Department   | 1 - 9999d                      | ( 4) |
| N | 2 | Scale Number | 1 - 64d                        | ( 2) |
|   |   |              | -----                          | (16) |

### Response

|   |    |                     |                         |                  |
|---|----|---------------------|-------------------------|------------------|
| N | 1  | RSP                 | 1,3d                    | ( 1)             |
| N | 5  | Code                | 403d                    | ( 5)             |
| F | 4  | Control             | see Definition          | ( 4)             |
| N | 4  | Department          | 1 - 9999d               | ( 4)             |
| N | 2  | Scale Number        | 1 - 64d                 | ( 2)             |
| N | 11 | Sales Revenue       | (without decimal point) | (11)             |
| N | 11 | Sales in Weight     | (g)                     | (11)             |
| N | 11 | Number of entries   |                         | (11)             |
| N | 11 | Margin              | (without decimal point) | (11) only for L2 |
| N | 11 | Number of Customers |                         | (11)             |
|   |    |                     | -----                   | (71)             |

## Access Code: 404

### Function: Operator Sales

#### Request Operator Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|  |   |                 |                |      |
|--|---|-----------------|----------------|------|
| N  | 1 | CMD             | 0d             | ( 1) |
| N  | 5 | Code            | 404d           | ( 5) |
| F  | 4 | Control         | see Definition | ( 4) |
| N  | 4 | Department      | 0d             | ( 4) |
| N  | 2 | Scale Number    | 0d             | ( 2) |
| N  | 2 | Operator Number | 1 - 99d        | ( 2) |
| Operator 1 – 99 decimal                                    |   |                 |                |      |
| 100 – SelfService-Operator (not changeable)                |   |                 |                |      |
| 101 – PrePack-Operator (not to changeable)                 |   |                 |                |      |
| Operator 102 – 200 binary (see below) *)                   |   |                 |                |      |
| *) only for LM06,26 / 07,27 and LF03 / 05 form Version 154 |   |                 |                |      |
| and for LE06 / 07 from Version 145                         |   |                 |                |      |

-----  
(18)

Info to operator number 102 to 200 see Access Code 204

#### Response

|   |        |                          |  |                  |
|---|--------|--------------------------|--|------------------|
| N | 1      | RSP                      | 1,3d                                       | ( 1)             |
| N | 5      | Code                     | 404d                                       | ( 5)             |
| F | 4      | Control                  | see Definition                             | ( 4)             |
| N | 4      | Department               | 0d   | ( 4)             |
| N | 2      | Scale Number             | 0d   | ( 2)             |
| N | 2      | Operator Number          | 1 - 99d,<br>(100=Self-serve; 101=Pre-Pack) | ( 2)             |
| N | 11     | Sales Revenue            | (without decimal point)                    | (11)             |
| N | 11     | Sales in Weight          | (g)  | (11)             |
| N | 11     | Number of Entries        |  | (11)             |
| N | 11     | Margin                   | (without decimal point)                    | (11) only for L2 |
| N | 11     | Number of Customers      |  | (11)             |
| N | 11     | Cancellation1 (Amount)   | (without decimal point)                    | (11)             |
| N | 5      | Number of Cancellation1  | ( 5)                                       |                  |
| N | 11     | Cancellation2 (Amount)   | (without decimal point)                    | (11)             |
| N | 5      | Number of Cancellation2  | ( 5)                                       |                  |
| N | 5      | Number of Blank Receipts |  | ( 5)             |
| N | 11     | Sales Green              | (without decimal point)                    | (11) only for L2 |
| N | 11     | Sales Yellow             | (without decimal point)                    | (11) only for L2 |
| N | 11     | Sales Red                | (without decimal point)                    | (11) only for L2 |
| N | 11     | SO Sales Revenue         | (without decimal point)                    | (11)             |
| N | 11     | SO Sales by Weight       | (g)  | (11)             |
| N | 11     | SO No. of Entries        |  | (11)             |
| N | 11     | SO Margin                | (without decimal point)                    | (11)             |
| N | 11[10] | Mark-up / Discount       | (without decimal point)                    | (110)            |
|   |        |                          |  | -----<br>(297)   |

## Access Code: 405

### Function: Time Based Sales

#### Request Time Based Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |                 |                                |      |
|---|---|-----------------|--------------------------------|------|
| N | 1 | CMD             | 0d                             | ( 1) |
| N | 5 | Code            | 405d                           | ( 5) |
| F | 4 | Control         | see Definition                 | ( 4) |
|   |   |                 | <i>only 0002 (read direct)</i> |      |
| N | 4 | Department      | 0 - 9999d                      | ( 4) |
| N | 2 | Scale Number    | 0d                             | ( 2) |
| N | 2 | Time of Day     | 0 - 24d                        | ( 2) |
|   |   |                 | 0 ⇒ no hourly sales            |      |
|   |   |                 | 1 ⇒ 0 - 1 Hrs                  |      |
|   |   |                 | 2 ⇒ 1 - 2 Hrs                  |      |
|   |   |                 | .....                          |      |
|   |   |                 | 24 ⇒ 23 - 24 Hrs               |      |
| N | 1 | Day of the Week | 0 - 7d                         | ( 1) |
|   |   |                 | 0 = no daily sales             |      |
|   |   |                 | 1 = Monday to 7 = Sunday       |      |
|   |   |                 | -----                          |      |
|   |   |                 |                                | (19) |

#### Response

|   |    |                     |                         |      |
|---|----|---------------------|-------------------------|------|
| N | 1  | RSP                 | 1,3d                    | ( 1) |
| N | 5  | Code                | 405d                    | ( 5) |
| F | 4  | Control             | see Definition          | ( 4) |
| N | 4  | Department          | 0 - 9999d               | ( 4) |
| N | 2  | Scale Number        | 0d                      | ( 2) |
| N | 2  | Time of day         | 0 - 24d                 | ( 2) |
| N | 1  | Day of the week     | 0 - 7d                  | ( 1) |
| N | 11 | Sales Revenue       | (without decimal point) | (11) |
| N | 11 | Sales in Weight     | (g)                     | (11) |
| N | 11 | Number of Entries   |                         | (11) |
| N | 11 | Number of Customers |                         | (11) |
|   |    |                     | -----                   |      |
|   |    |                     |                         | (63) |

## Access Code: 406

### Function: Article Group Sales

Request Article Group Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |                      |                                  |      |
|---|---|----------------------|----------------------------------|------|
| N | 1 | CMD                  | 0d                               | ( 1) |
| N | 5 | Code                 | 406d                             | ( 5) |
| F | 4 | Control              | see Definition                   | ( 4) |
| N | 4 | Department           | 1 - 9999d                        | ( 4) |
| N | 2 | Scale Number         | 0d                               | ( 2) |
| N | 4 | Article Group Number | 1 - 9999d                        | ( 4) |
| N | 1 | Sales Type           | 0 - 4d                           | ( 1) |
|   |   |                      | 0 ⇒ <i>PLU share</i>             |      |
|   |   |                      | 1 ⇒ <i>Hand+ share</i>           |      |
|   |   |                      | 2 ⇒ <i>Hand- share</i>           |      |
|   |   |                      | 3 ⇒ <i>Miscellaneous - share</i> |      |

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(21)

**Response**

|   |    |                      |                         |                  |
|---|----|----------------------|-------------------------|------------------|
| N | 1  | RSP                  | 1,3d                    | ( 1)             |
| N | 5  | Code                 | 406d                    | ( 5)             |
| F | 4  | Control              | see Definition          | ( 4)             |
| N | 4  | Department           | 1 - 9999d               | ( 4)             |
| N | 2  | Scale Number         | 0d                      | ( 2)             |
| N | 4  | Article Group Number | 1 - 9999d               | ( 4)             |
| N | 1  | Sales Type           | 0 - 4d (see Definition) | ( 1)             |
| N | 11 | Sales Revenue        | (without decimal point) | (11)             |
| N | 11 | Sales in Weight      | (g)                     | (11)             |
| N | 11 | Number of Entries    |                         | (11)             |
| N | 11 | Margin               | (without decimal point) | (11) only for L2 |

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(65)

## Access Code: 407

### Function: Main Article Group Sales

Request Main Article Group Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Command**

|   |   |                           |                                |       |
|---|---|---------------------------|--------------------------------|-------|
| N | 1 | CMD                       | 0d                             | ( 1)  |
| N | 5 | Code                      | 407d                           | ( 5)  |
| F | 4 | Control                   | see Definition                 | ( 4)  |
|   |   |                           | <i>only 0002 (read direct)</i> |       |
| N | 4 | Department                | 1 - 9999d                      | ( 4)  |
| N | 2 | Scale Number              | 0d                             | ( 2)  |
| N | 4 | Main Article Group Number | 1 - 9999d                      | ( 4)  |
|   |   |                           |                                | ----- |
|   |   |                           |                                | (20)  |

**Response**

|   |    |                           |                         |       |
|---|----|---------------------------|-------------------------|-------|
| N | 1  | RSP                       | 1,3d                    | ( 1)  |
| N | 5  | Code                      | 407d                    | ( 5)  |
| F | 4  | Control                   | see Definition          | ( 4)  |
| N | 4  | Department                | 1 - 9999d               | ( 4)  |
| N | 2  | Scale Number              | 0d                      | ( 2)  |
| N | 4  | Main Article Group Number | 1 - 9999d               | ( 4)  |
| N | 11 | Sales Revenue             | (without decimal point) | (11)  |
| N | 11 | Sales in Weight           | (g)                     | (11)  |
| N | 11 | Number of entries         |                         | (11)  |
| N | 11 | Margin                    | (without decimal point) | (11)  |
|   |    |                           |                         | ----- |
|   |    |                           |                         | (64)  |

## Access Code: 408

### Function: Article Sales

#### Request Article Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |    |                     |   |      |
|---|----|---------------------|---|------|
| N | 1  | CMD                 | 0d  | ( 1) |
| N | 5  | Code                | 408d  | ( 5) |
| F | 4  | Control             | see Definition                                      | ( 4) |
|   |    |                     | <i>additional __4_ (only PLU/AG with sales)</i>     |      |
|   |    |                     | <i>additional __8_ (only PLUs on special offer)</i> |      |
| N | 4  | Department          | 1 - 9999d   | ( 4) |
| N | 2  | Scale Number        | 0d  | ( 2) |
| N | 6  | PLU Number          | 1 - 999999d   | ( 6) |
| C | 13 | EAN Number          | ASCII numbers                                       | (13) |
| C | 10 | Article Description | ASCII characters                                    | (10) |
|   |    |                     | -----   | (45) |

#### Response

|   |    |                     |                         |                  |
|---|----|---------------------|-------------------------|------------------|
| N | 1  | RSP                 | 1,3d                    | ( 1)             |
| N | 5  | Code                | 408d                    | ( 5)             |
| F | 4  | Control             | see Definition          | ( 4)             |
| N | 4  | Department          | 1 - 9999d               | ( 4)             |
| N | 2  | Scale Number        | 0d                      | ( 2)             |
| N | 6  | PLU Number          | 1 - 999999d             | ( 6)             |
| C | 13 | EAN Number          | ASCII numbers           | (13)             |
| C | 20 | Article description | ASCII character         | (20)             |
| N | 11 | Sales Revenue       | (without decimal point) | (11)             |
| N | 11 | Sales in Weight (g) |                         | (11)             |
| N | 11 | Number of Entries   |                         | (11)             |
| N | 11 | Margin              | (without decimal point) | (11) only for L2 |
| N | 11 | Remainder           | (g, pieces)             | (11)             |
|   |    |                     | -----                   | (110)            |



## Access Code: 409

### Function: Mark-up / Discount Sales

Request Mark-up / Discount Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  |      | 2/a  | 2/a  | 2    |      | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |                           |                                |       |
|---|---|---------------------------|--------------------------------|-------|
| N | 1 | CMD                       | 0d                             | ( 1)  |
| N | 5 | Code                      | 409d                           | ( 5)  |
| F | 4 | Control                   | see Definition                 | ( 4)  |
|   |   |                           | <i>only 0002 (read direct)</i> |       |
| N | 4 | Department                | 0d                             | ( 4)  |
| N | 2 | Scale Number              | 0d                             | ( 2)  |
| N | 1 | Mark-up / Discount Number | 0 - 9d                         | ( 1)  |
|   |   |                           |                                | ----- |
|   |   |                           |                                | (17)  |

**Response**

|   |       |                               |                         |       |
|---|-------|-------------------------------|-------------------------|-------|
| N | 1     | RSP                           | 1,3d                    | ( 1)  |
| N | 5     | Code                          | 409d                    | ( 5)  |
| F | 4     | Control                       | see Definition          | ( 4)  |
| N | 4     | Department                    | 0d                      | ( 4)  |
| N | 2     | Scale Number                  | 0d                      | ( 2)  |
| N | 1     | Mark-up / Discount Number     | 0 - 9d                  | ( 1)  |
| N | 11[2] | Mark-up / Discount Sales Rev. | (without decimal point) | (22)  |
| N | 11[2] | Number of entries             |                         | (22)  |
|   |       |                               |                         | ----- |
|   |       |                               |                         | (61)  |

## Access Code: 410

### Function: Sales Category Sales

Request Sales Based on Sales Category

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 2/e  | 2/e  |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

#### Command

|   |   |                              |                |       |
|---|---|------------------------------|----------------|-------|
| N | 1 | CMD                          | 0d             | ( 1)  |
| N | 5 | Code                         | 410d           | ( 5)  |
| F | 4 | Control                      | see Definition | ( 4)  |
| N | 4 | Department                   | 0d             | ( 4)  |
| N | 2 | Scale Number                 | 0d             | ( 2)  |
| N | 1 | Sales Category Number 0 - 9d |                | ( 1)  |
|   |   |                              |                | ----- |
|   |   |                              |                | (17)  |

#### Response

|   |    |                              |                         |       |
|---|----|------------------------------|-------------------------|-------|
| N | 1  | RSP                          | 1,3d                    | ( 1)  |
| N | 5  | Code                         | 410d                    | ( 5)  |
| F | 4  | Control                      | see Definition          | ( 4)  |
| N | 4  | Department                   | 0d                      | ( 4)  |
| N | 2  | Scale Number                 | 0d                      | ( 2)  |
| N | 1  | Sales Category Number 0 - 9d |                         | ( 1)  |
| N | 11 | Sales Revenue                | (without decimal point) | (11)  |
| N | 11 | Number of Receipts           |                         | (11)  |
|   |    |                              |                         | ----- |
|   |    |                              |                         | (39)  |

## Access Code: 411

## Function: VAT Sales

Request Sales Report on a Particular VAT Rate

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |              |                                |       |
|---|---|--------------|--------------------------------|-------|
| N | 1 | CMD          | 0d                             | ( 1)  |
| N | 5 | Code         | 411d                           | ( 5)  |
| F | 4 | Control      | see Definition                 | ( 4)  |
|   |   |              | <i>only 0002 (read direct)</i> |       |
| N | 4 | Department   | 0d                             | ( 4)  |
| N | 2 | Scale Number | 0d                             | ( 2)  |
| N | 2 | VAT Number   | 0 - 15d                        | ( 2)  |
|   |   |              |                                | ----- |
|   |   |              |                                | (18)  |

**Response**

|   |    |              |                         |       |
|---|----|--------------|-------------------------|-------|
| N | 1  | RSP          | 1,3d                    | ( 1)  |
| N | 5  | Code         | 411d                    | ( 5)  |
| F | 4  | Control      | see Definition          | ( 4)  |
| N | 4  | Department   | 0d                      | ( 4)  |
| N | 2  | Scale Number | 0d                      | ( 2)  |
| N | 2  | VAT Number   | 0 - 15d                 | ( 2)  |
| N | 11 | Total Sales  | (without decimal point) | (11)  |
|   |    |              |                         | ----- |
|   |    |              |                         | (29)  |

## Access Code: 412

### Function: Special Offer Sales

Request Special Offer Sales

| LC05 | LC03 | LR03 | LM01 | LM02 | LM04 | LK05 | LM60 | LM61 | LM70 | LM05 | LM25 | LF05 | LE05 | LM06 | LM26 | LE06 | LM07 | LM27 | LE07 | LM08 | LM28 | LM03 | LM23 | LF03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2/e  | 2/e  | 2/e  | 2/a  | 2/a  | 2/a  | 2    | 2    | 2    | 2    | 2/a  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/e  | 2/a  | 2/a  | 2/a  | 2/a  | 2/a  |

**Command**

|   |   |                      |   |       |
|---|---|----------------------|---|-------|
| N | 1 | CMD                  | 0d  | ( 1)  |
| N | 5 | Code                 | 412d                                      | ( 5)  |
| F | 4 | Control              | see Definition<br>only 0002 (read direct) | ( 4)  |
| N | 4 | Department           | 0d  | ( 4)  |
| N | 2 | Scale Number         | 0d  | ( 2)  |
| N | 4 | Special Offer Number | 1 - 9999d                                 | ( 4)  |
| N | 4 | Department           | 1 - 9999d                                 | ( 4)  |
| N | 6 | PLU Number           | 1 - 999999d                               | ( 6)  |
|   |   |                      |   | ----- |
|   |   |                      |   | (30)  |

**Response**

|   |      |                      |                         |       |
|---|------|----------------------|-------------------------|-------|
| N | 1    | RSP                  | 1,3d                    | ( 1)  |
| N | 5    | Code                 | 412d                    | ( 5)  |
| F | 4    | Control              | see Definition          | ( 4)  |
| N | 4    | Department           | 0d                      | ( 4)  |
| N | 2    | Scale Number         | 0d                      | ( 2)  |
| N | 4    | Special Offer number | 1 - 9999d               | ( 4)  |
| N | 4    | Department           | 1 - 9999d               | ( 4)  |
| N | 6    | PLU Number           | 1 - 999999d             | ( 6)  |
| N | 8[2] | Special Offer Price  | +/- 0-999999(9)d        | (16)  |
| N | 8[2] | Selling Price        | +/- 0-999999(9)d        | (16)  |
| N | 11   | Sales Revenue        | (without decimal point) | (11)  |
| N | 11   | Sales in Weight      | (g)                     | (11)  |
| N | 11   | Number of entries    |                         | (11)  |
| N | 11   | Margin               | (without decimal point) | (11)  |
|   |      |                      |                         | ----- |
|   |      |                      |                         | (106) |

## IV-D Sales Reports - Access Codes 5XX

### Definition of Access Control for the Requesting of Sales Reports

The command part (i.e. command message) of this Access Code allows the report type, output format, sales level and sales type to be specified in its Control Field. The response part (i.e. the response message from the scale) contains the updated status in its Control Field.

| Access type | Meaning  |
|-------------|--|
| _ _ _ 6     | write to channel Release sales report to interface |

| Key     | Meaning   |
|---------|---|
| _ _ 4 _ | only PLU/Article Group with sales for Access Codes 504, 505 |
| _ _ 8 _ | only Special Offer PLU for Access Code 505 (Special Offers) |

| Data Server | Meaning  |
|-------------|--|
| _ 0 _ _     | Sales level 1                                      |
| _ 1 _ _     | Sales level 2                                      |
| _ 2 _ _     | Sales level 3 only for L2                          |
| _ 3 _ _     | Sales level 4 only for L2                          |
| _ 0 _ _     | Sales type Service counter or cash register sales  |
| _ 4 _ _     | Sales type Self-Serve sales or cash register sales |
| _ 8 _ _     | Sales type Pre-Pack Sales                          |
| _ C _ _     | Sales type Inventory Value                         |

To combine Sales Levels and Sales Types, the corresponding values are to be added in hexadecimal format.  
E.g. Pre-Pack sales for sales level 3 has the value of⇒ "A"

| Status  | Meaning          |
|---------|------------------|
| 0 _ _ _ | OK               |
| 1 _ _ _ | report cancelled |

## Access Code: 500

### Function: Operator & Scale Complete

#### Presentation of Operator and Scale Sales According to Department

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                   |                                       |                  |
|---|---|-------------------|---------------------------------------|------------------|
| N | 1 | CMD               | 0d                                    | ( 1)             |
| N | 5 | Code              | 500d                                  | ( 5)             |
| F | 4 | Control           | see Definition                        | ( 4)             |
| N | 4 | Department        | 0 - 9999d                             | ( 4)             |
| N | 2 | Scale Number      | 0d                                    | ( 2)             |
| N | 1 | Short/Long report | 0d = Short report<br>1d = long report | ( 1) only for L2 |

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(17)

#### Response (Multi-block, for unformatted output)

##### Operator Sales

|          |          |                          |                                   |                  |
|----------|----------|--------------------------|-----------------------------------|------------------|
| N        | 1        | RSP                      | 1,3d                              | ( 1)             |
| N        | 5        | Code                     | 500d                              | ( 5)             |
| F        | 4        | Control                  | see Definition                    | ( 4)             |
| N        | 4        | Department               | 0d                                | ( 4)             |
| N        | 2        | Scale Number             | 0d                                | ( 2)             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>       | <b>0d=Operator sales</b>          | <b>( 3)</b>      |
| N(C)     | 2        | Operator Number          | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)             |
| N        | 11       | Sales Revenue            | (without decimal point)           | (11)             |
| N        | 11       | Sales in Weight          | (g)                               | (11)             |
| N        | 11       | Number of Entries        |                                   | (11)             |
| N        | 11       | Margin                   | (without decimal point)           | (11) only for L2 |
| N        | 11       | No. of Customers         |                                   | (11)             |
| N        | 11       | Cancellation1 (Amount)   | (without decimal point)           | (11)             |
| N        | 5        | Number of Cancellation1  |                                   | ( 5)             |
| N        | 11       | Cancellation2 (Amount)   | (without decimal point)           | (11)             |
| N        | 5        | Number of Cancellation2  |                                   | ( 5)             |
| N        | 5        | Number of Blank Receipts |                                   | ( 5)             |

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(113)

##### Operator Sales (additional)

|          |          |                                 |                                       |                  |
|----------|----------|---------------------------------|---------------------------------------|------------------|
| N        | 1        | RSP                             | 1,3d                                  | ( 1)             |
| N        | 5        | Code                            | 500d                                  | ( 5)             |
| F        | 4        | Control                         | see Definition                        | ( 4)             |
| N        | 4        | Department                      | 0d                                    | ( 4)             |
| N        | 2        | Scale Number                    | 0d                                    | ( 2)             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>              | <b>1d=Operator Sales (additional)</b> | <b>( 3)</b>      |
| N(C)     | 2        | Operator Number                 | 1 - 99d, 'Self-serve', 'Pre-Pack'     | ( 2)             |
| N        | 11       | Sales Green                     | (without decimal point)               | (11) only for L2 |
| N        | 11       | Sales Yellow                    | (without decimal point)               | (11) only for L2 |
| N        | 11       | Sales Red                       | (without decimal point)               | (11) only for L2 |
| N        | 11       | Special Offer Sales Revenue     | without decimal point                 | (11)             |
| N        | 11       | Special Offer Sales by Weight   | (g)                                   | (11)             |
| N        | 11       | Special Offer Number of Entries |                                       | (11)             |
| N        | 11       | Special Offer Margin            | (without decimal point)               | (11) only for L2 |

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(98)

*Total Operator Sales*

|          |          |                     |                                   |             |             |
|----------|----------|---------------------|-----------------------------------|-------------|-------------|
| N        | 1        | RSP                 | 1,3d                              | ( 1)        |             |
| N        | 5        | Code                | 500d                              | ( 5)        |             |
| F        | 4        | Control             | see Definition                    | ( 4)        |             |
| N        | 4        | Department          | 0d                                | ( 4)        |             |
| N        | 2        | Scale Number        | 0d                                | ( 2)        |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>  | <b>2d = Sum of Operator Sales</b> | <b>( 3)</b> |             |
| N        | 11       | Sales Revenue       | (without decimal point)           | (11)        |             |
| N        | 11       | Sales in Weight     | (g)                               | (11)        |             |
| N        | 11       | Number of Entries   |                                   | (11)        |             |
| N        | 11       | Margin              | (without decimal point)           | (11)        | only for L2 |
| N        | 11       | Number of Customers |                                   | (11)        |             |

-----  
(74)*Specific Values**only for L2*

|   |   |              |                |      |  |
|---|---|--------------|----------------|------|--|
| N | 1 | RSP          | 1,3d           | ( 1) |  |
| N | 5 | Code         | 500d           | ( 5) |  |
| F | 4 | Control      | see Definition | ( 4) |  |
| N | 4 | Department   | 0d             | ( 4) |  |
| N | 2 | Scale Number | 0d             | ( 2) |  |

|          |          |                    |                             |             |  |
|----------|----------|--------------------|-----------------------------|-------------|--|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>3d = Specific Values</b> | <b>( 3)</b> |  |
| N        | 11       | Sales/Customer     | (without decimal point)     | (11)        |  |
| N        | 11       | Entries/Customer   |                             | (11)        |  |
| N        | 11       | Margin/Customer    | (without decimal point)     | (11)        |  |

-----  
(52)*Scale Sales*

|   |   |              |                |      |  |
|---|---|--------------|----------------|------|--|
| N | 1 | RSP          | 1,3d           | ( 1) |  |
| N | 5 | Code         | 500d           | ( 5) |  |
| F | 4 | Control      | see Definition | ( 4) |  |
| N | 4 | Department   | 1 - 9999d      | ( 4) |  |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |  |

|          |          |                     |                         |             |             |
|----------|----------|---------------------|-------------------------|-------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>  | <b>4d = Scale Sales</b> | <b>( 3)</b> |             |
| N        | 11       | Sales Revenue       | (without decimal point) | (11)        |             |
| N        | 11       | Sales in Weight     | (g)                     | (11)        |             |
| N        | 11       | Number of Entries   |                         | (11)        |             |
| N        | 11       | Margin              | (without decimal point) | (11)        | only for L2 |
| N        | 11       | Number of Customers |                         | (11)        |             |

-----  
(74)*Total Scale Sales*

|   |   |              |                |      |  |
|---|---|--------------|----------------|------|--|
| N | 1 | RSP          | 1,3d           | ( 1) |  |
| N | 5 | Code         | 500d           | ( 5) |  |
| F | 4 | Control      | see Definition | ( 4) |  |
| N | 4 | Department   | 1 - 9999d      | ( 4) |  |
| N | 2 | Scale Number | 0d             | ( 2) |  |

|          |          |                     |                               |             |             |
|----------|----------|---------------------|-------------------------------|-------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record-Type</b>  | <b>5d = Total Scale Sales</b> | <b>( 3)</b> |             |
| N        | 11       | Sales Revenue       | (without decimal point)       | (11)        |             |
| N        | 11       | Sales in Weight     | (g)                           | (11)        |             |
| N        | 11       | Number of Entries   |                               | (11)        |             |
| N        | 11       | Margin              | (without decimal point)       | (11)        | only for L2 |
| N        | 11       | Number of Customers |                               | (11)        |             |

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(74)

|            |          |                    |                         |             |
|------------|----------|--------------------|-------------------------|-------------|
| <i>VAT</i> |          |                    |                         |             |
| N          | 1        | RSP                | 1,3d                    | ( 1)        |
| N          | 5        | Code               | 500d                    | ( 5)        |
| F          | 4        | Control            | see Definition          | ( 4)        |
| N          | 4        | Department         | 0d                      | ( 4)        |
| N          | 2        | Scale Number       | 0d                      | ( 2)        |
|            |          |                    |                         |             |
| <b>N</b>   | <b>3</b> | <b>Record Type</b> | <b>6d = VAT</b>         | <b>( 3)</b> |
| N          | 2        | VAT number         | 0 -15d                  | ( 2)        |
| N          | 11       | Sales Revenue      | (without decimal point) | (11)        |

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(32)

|                           |          |  |                                |             |
|---------------------------|----------|--|--------------------------------|-------------|
| <i>Mark-up / Discount</i> |          |  |                                |             |
| N                         | 1        | RSP  | 1,3d                           | ( 1)        |
| N                         | 5        | Code   | 500d                           | ( 5)        |
| F                         | 4        | Control  | see Definition                 | ( 4)        |
| N                         | 4        | Department                                       | 0d                             | ( 4)        |
| N                         | 2        | Scale Number                                     | 0d                             | ( 2)        |
|                           |          |  |                                |             |
| <b>N</b>                  | <b>3</b> | <b>Record-Type</b>                               | <b>7d = Mark-up / Discount</b> | <b>( 3)</b> |
| N                         | 1        | Mark-up / Discount number                        | 0 - 9d                         | ( 1)        |
| N                         | 11[2]    | Mark-up / Discount sales (without decimal point) |                                | (22)        |
| N                         | 11[2]    | Number of Entries                                |                                | (22)        |

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(64)

|                       |          |                       |                            |             |
|-----------------------|----------|-----------------------|----------------------------|-------------|
| <i>Sales category</i> |          |                       |                            |             |
| N                     | 1        | RSP                   | 1,3d                       | ( 1)        |
| N                     | 5        | Code                  | 500d                       | ( 5)        |
| F                     | 4        | Control               | see Definition             | ( 4)        |
| N                     | 4        | Department            | 0d                         | ( 4)        |
| N                     | 2        | Scale Number          | 0d                         | ( 2)        |
|                       |          |                       |                            |             |
| <b>N</b>              | <b>3</b> | <b>Record Type</b>    | <b>8d = Sales category</b> | <b>( 3)</b> |
| N                     | 1        | Sales category number | 0 - 9d                     | ( 1)        |
| N                     | 11       | Sales Revenue         | (without decimal point)    | (11)        |
| N                     | 11       | Number of Receipts    |                            | (11)        |

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(42)

|                       |          |                     |                            |             |
|-----------------------|----------|---------------------|----------------------------|-------------|
| <i>Checkout-Slips</i> |          |                     |                            |             |
| N                     | 1        | RSP                 | 1,3d                       | ( 1)        |
| N                     | 5        | Code                | 500d                       | ( 5)        |
| F                     | 4        | Control             | see Definition             | ( 4)        |
| N                     | 4        | Department          | 0d                         | ( 4)        |
| N                     | 2        | Scale Number        | 0d                         | ( 2)        |
|                       |          |                     |                            |             |
| <b>N</b>              | <b>3</b> | <b>Record Type</b>  | <b>9d = Checkout-Slips</b> | <b>( 3)</b> |
| N                     | 11       | Sales Revenue       | (without decimal point)    | (11)        |
| N                     | 11       | Number of Entries   |                            | (11)        |
| N                     | 11       | Number of Customers |                            | (11)        |

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(52)



*Orders*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 500d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                     |                         |             |
|----------|----------|---------------------|-------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record-Type</b>  | <b>10d = Order</b>      | <b>( 3)</b> |
| N        | 11       | Sales Revenue       | (without decimal point) | (11)        |
| N        | 11       | Number of Entries   |                         | (11)        |
| N        | 11       | Number of Customers |                         | (11)        |

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(52)

*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 500d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 501

### Function: Main Department

#### Presentation of Main Department Sales According to Default Department

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

|   |   |                        |  |       |
|---|---|------------------------|--|-------|
| N | 1 | CMD                    | 0d   | ( 1)  |
| N | 5 | Code                   | 501d   | ( 5)  |
| F | 4 | Control                | see Definition                                   | ( 4)  |
| N | 4 | Department             | 0d   | ( 4)  |
| N | 2 | Scale Number           | 0d   | ( 2)  |
|   |   |                        |  |       |
| N | 4 | from Default Dept. No. | 0 - 9999d<br><i>0=lowest Default Department</i>  | ( 4)  |
|   |   |                        |  |       |
| N | 4 | to Default Dept. No.   | 0 - 9999d<br><i>0=highest Default Department</i> | ( 4)  |
|   |   |                        |  | ----- |
|   |   |                        |  | (24)  |

#### Response (Multi-block, for unformatted output)

##### Default Department

|          |          |                              |                              |             |
|----------|----------|------------------------------|------------------------------|-------------|
| N        | 1        | RSP                          | 1,3d                         | ( 1)        |
| N        | 5        | Code                         | 501d                         | ( 5)        |
| F        | 4        | Control                      | see Definition               | ( 4)        |
| N        | 4        | Department                   | 0d                           | ( 4)        |
| N        | 2        | Scale Number                 | 0d                           | ( 2)        |
|          |          |                              |                              |             |
| <b>N</b> | <b>3</b> | <b>Record-Type</b>           | <b>0d=Default Department</b> | <b>( 3)</b> |
| N        | 4        | Default Department number.   | 1 - 9999d                    | ( 4)        |
| C        | 20       | Default Department descript. | ASCII character              | (20)        |

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(43)

##### Default Department Sales

|          |          |                    |                                    |             |
|----------|----------|--------------------|------------------------------------|-------------|
| N        | 1        | RSP                | 1,3d                               | ( 1)        |
| N        | 5        | Code               | 501d                               | ( 5)        |
| F        | 4        | Control            | see Definition                     | ( 4)        |
| N        | 4        | Department         | 0d                                 | ( 4)        |
| N        | 2        | Scale number       | 0d                                 | ( 2)        |
|          |          |                    |                                    |             |
| <b>N</b> | <b>3</b> | <b>Record-Type</b> | <b>1d=Default Department Sales</b> | <b>( 3)</b> |
| N        | 11       | Sales Revenue      | (without decimal point)            | (11)        |
| N        | 11       | Sales by Weight    | (g)                                | (11)        |
| N        | 11       | Number of Entries  | (11)                               | (11)        |
| N        | 11       | Margin             | (without decimal point)            | (11)        |
| N        | 11       | Customers          |                                    | (11)        |

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(74)

*Specific Values*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 501d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>2d = Specific Values</b> | <b>( 3)</b> |
| N        | 11       | Sales/Customer     | (without decimal point)     | (11)        |
| N        | 11       | Entries/Customer   |                             | (11)        |
| N        | 11       | Margin/Customer    | (without decimal point)     | (11)        |

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(52)

*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 501d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 502

### Function: Department

#### Presentation of Department Sales According to Department

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

|   |   |                        |  |       |
|---|---|------------------------|--|-------|
| N | 1 | CMD                    | 0d   | ( 1)  |
| N | 5 | Code                   | 502d                                       | ( 5)  |
| F | 4 | Control                | see Definition                             | ( 4)  |
| N | 4 | Department             | 0d   | ( 4)  |
| N | 2 | Scale Number           | 0d   | ( 2)  |
| N | 4 | from Department Number | 0 - 9999d<br><i>0 = lowest Department</i>  | ( 4)  |
| N | 4 | to Department Number   | 0 - 9999d<br><i>0 = highest Department</i> | ( 4)  |
|   |   |                        |  | ----- |
|   |   |                        |  | (24)  |

#### Response (Multi-block, for unformatted output)

|                   |    |                        |                        |             |
|-------------------|----|------------------------|------------------------|-------------|
| <i>Department</i> |    |                        |                        |             |
| N                 | 1  | RSP                    | 1,3d                   | ( 1)        |
| N                 | 5  | Code                   | 502d                   | ( 5)        |
| F                 | 4  | Control                | see Definition         | ( 4)        |
| N                 | 4  | Department             | 1 - 9999d              | ( 4)        |
| N                 | 2  | Scale Number           | 0d                     | ( 2)        |
| N                 | 3  | <b>Record Type</b>     | <b>0d = Department</b> | <b>( 3)</b> |
| N                 | 4  | Department Number      | 1 - 9999d              | ( 4)        |
| C                 | 20 | Department Description | ASCII character        | (20)        |
|                   |    |                        |                        | -----       |
|                   |    |                        |                        | (43)        |

|                         |    |                                 |                            |                  |
|-------------------------|----|---------------------------------|----------------------------|------------------|
| <i>Department Sales</i> |    |                                 |                            |                  |
| N                       | 1  | RSP                             | 1,3d                       | ( 1)             |
| N                       | 5  | Code                            | 502d                       | ( 5)             |
| F                       | 4  | Control                         | see Definition             | ( 4)             |
| N                       | 4  | Department                      | 1 - 9999d                  | ( 4)             |
| N                       | 2  | Scale Number                    | 0d                         | ( 2)             |
| N                       | 3  | <b>Record Type</b>              | <b>1d=Department Sales</b> | <b>( 3)</b>      |
| N                       | 11 | Sales Revenue                   | (without decimal point)    | (11)             |
| N                       | 11 | Sales by Weight                 | (g)                        | (11)             |
| N                       | 11 | Number of Entries               |                            | (11)             |
| N                       | 11 | Margin                          | (without decimal point)    | (11) only for L2 |
| N                       | 11 | Customers                       |                            | (11)             |
| N                       | 11 | Special Offer Sales Revenue     | (without decimal point)    | (11)             |
| N                       | 11 | Special Offer Sales in weight   | (g)                        | (11)             |
| N                       | 11 | Special Offer Number of Entries |                            | (11)             |
| N                       | 11 | Special Offer Margin            | (without decimal point)    | (11) only for L2 |
|                         |    |                                 |                            | -----            |
|                         |    |                                 |                            | (118)            |

| <i>Specific Values</i> |          |                                       |                             | <i>only for L2</i> |
|------------------------|----------|---------------------------------------|-----------------------------|--------------------|
| N                      | 1        | RSP                                   | 1,3d                        | ( 1 )              |
| N                      | 5        | Code                                  | 502d                        | ( 5 )              |
| F                      | 4        | Control                               | see Definition              | ( 4 )              |
| N                      | 4        | Department                            | 1 - 9999d                   | ( 4 )              |
| N                      | 2        | Scale Number                          | 0d                          | ( 2 )              |
| <b>N</b>               | <b>3</b> | <b>Record Type</b>                    | <b>2d = Specific Values</b> | <b>( 3 )</b>       |
| N                      | 3        | Special Offer Sales /Sales*100 (in %) |                             | ( 3 )              |
| N                      | 11       | Sales/Customer                        | (without decimal point)     | (11)               |
| N                      | 11       | Entries/Customer                      |                             | (11)               |
| N                      | 11       | Margin/Customer                       | (without decimal point)     | (11)               |
|                        |          |                                       |                             | -----              |
| <i>End</i>             |          |                                       |                             | (55)               |
| N                      | 1        | RSP                                   | 1,3d                        | ( 1 )              |
| N                      | 5        | Code                                  | 502d                        | ( 5 )              |
| F                      | 4        | Control                               | see Definition              | ( 4 )              |
| N                      | 4        | Department                            | 0d                          | ( 4 )              |
| N                      | 2        | Scale Number                          | 0d                          | ( 2 )              |
| <b>N</b>               | <b>3</b> | <b>Record Type</b>                    | <b>255d = End Of Report</b> | <b>( 3 )</b>       |
|                        |          |                                       |                             | -----              |
|                        |          |                                       |                             | (19)               |

## Access Code: 503

### Function: Main Article Groups

Presentation of Main Article Group Sales according to Main Article Groups.

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                                |                                       |                |
|---|---|--------------------------------|---------------------------------------|----------------|
| N | 1 | CMD                            | 0d                                    | ( 1)           |
| N | 5 | Code                           | 503d                                  | ( 5)           |
| F | 4 | Control                        | see Definition                        | ( 4)           |
| N | 4 | Department                     | 0 - 9999d                             | ( 4)           |
|   |   |                                | 0 = all departments                   |                |
| N | 2 | Scale Number                   | 0d                                    | ( 2)           |
| N | 4 | from Main Article Group number |                                       | 0 - 9999d ( 4) |
|   |   |                                | 0 = lowest Main Article Group number  |                |
| N | 4 | to Main Article Group Number   |                                       | 0 - 9999d ( 4) |
|   |   |                                | 0 = highest Main Article Group number |                |
|   |   |                                | -----                                 |                |
|   |   |                                | (24)                                  |                |

#### Response (Multi-block, for unformatted output)

|                                 |          |                                |                                    |             |
|---------------------------------|----------|--------------------------------|------------------------------------|-------------|
| <i>Main Article Group</i>       |          |                                |                                    |             |
| N                               | 1        | RSP                            | 1,3d                               | ( 1)        |
| N                               | 5        | Code                           | 503d                               | ( 5)        |
| F                               | 4        | Control                        | see Definition                     | ( 4)        |
| N                               | 4        | Department                     | 1 - 9999d                          | ( 4)        |
| N                               | 2        | Scale Number                   | 0d                                 | ( 2)        |
| <b>N</b>                        | <b>3</b> | <b>Record Type</b>             | <b>0d = Main Article Group</b>     | <b>( 3)</b> |
| N                               | 4        | Main Article Group Number      | 1 - 9999d                          | ( 4)        |
| C                               | 20       | Main Article Group Description | ASCII character                    | (20)        |
|                                 |          |                                | -----                              |             |
|                                 |          |                                | (43)                               |             |
| <i>Main Article Group Sales</i> |          |                                |                                    |             |
| N                               | 1        | RSP                            | 1,3d                               | ( 1)        |
| N                               | 5        | Code                           | 503d                               | ( 5)        |
| F                               | 4        | Control                        | see Definition                     | ( 4)        |
| N                               | 4        | Department                     | 1 - 9999d                          | ( 4)        |
| N                               | 2        | Scale Number                   | 0d                                 | ( 2)        |
| <b>N</b>                        | <b>3</b> | <b>Record Type</b>             | <b>1d=Main Article Group Sales</b> | <b>( 3)</b> |
| N                               | 11       | Sales Revenue                  | (without decimal point)            | (11)        |
| N                               | 11       | Sales by Weight                | (g)                                | (11)        |
| N                               | 11       | Number of Entries              |                                    | (11)        |
| N                               | 11       | Margin                         | (without decimal point)            | (11)        |
|                                 |          |                                | -----                              |             |
|                                 |          |                                | (63)                               |             |

*Specific Values*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 503d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                       |                             |             |
|----------|----------|-----------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record-Type</b>    | <b>2d = Specific Values</b> | <b>( 3)</b> |
| N        | 11       | Average Selling Price | +/- 0-999999d               | (11)        |
| N        | 11       | Sales/Entries         | (without decimal point)     | (11)        |
| N        | 11       | Margin/Entries        | (without decimal point)     | (11)        |

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(52)*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 503d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |               |
|----------|----------|--------------------|-----------------------------|---------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b>   |
|          |          |                    |                             | -----<br>(19) |

## Access Code: 504

### Function: Article Groups

#### Article Group Sales Report According to Article Groups

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                           |                                 |       |
|---|---|---------------------------|---------------------------------|-------|
| N | 1 | CMD                       | 0d                              | ( 1)  |
| N | 5 | Code                      | 504d                            | ( 5)  |
| F | 4 | Control                   | see Definition                  | ( 4)  |
| N | 4 | Department                | 0 - 9999d                       | ( 4)  |
|   |   |                           | 0 = all Departments             |       |
| N | 2 | Scale Number              | 0d                              | ( 2)  |
| N | 4 | from Article Group Number | 0 - 9999d                       | ( 4)  |
|   |   |                           | 0 = lowest article group number |       |
| N | 4 | to Article group Number   | 0 - 9999d                       | ( 4)  |
|   |   |                           | 0 = article group number        |       |
|   |   |                           |                                 | ----- |
|   |   |                           |                                 | (24)  |

#### Response (Multi-block, for unformatted output)

*Article Group*

|          |          |                           |                           |             |
|----------|----------|---------------------------|---------------------------|-------------|
| N        | 1        | RSP                       | 1,3d                      | ( 1)        |
| N        | 5        | Code                      | 504d                      | ( 5)        |
| F        | 4        | Control                   | see Definition            | ( 4)        |
| N        | 4        | Department                | 0 - 9999d (0: 'dump')     | ( 4)        |
| N        | 2        | Scale Number              | 0d                        | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>        | <b>0d = Article group</b> | <b>( 3)</b> |
| N        | 4        | Article Group Number      | 1 - 9999d, 0: dump        | ( 4)        |
| C        | 20       | Article Group Description | ASCII character           | (20)        |
|          |          |                           |                           | -----       |
|          |          |                           |                           | (43)        |

*Article group Sales*

|          |          |                    |                                 |                  |
|----------|----------|--------------------|---------------------------------|------------------|
| N        | 1        | RSP                | 1,3d                            | ( 1)             |
| N        | 5        | Code               | 504d                            | ( 5)             |
| F        | 4        | Control            | see Definition                  | ( 4)             |
| N        | 4        | Department         | 1 - 9999d                       | ( 4)             |
| N        | 2        | Scale Number       | 0d                              | ( 2)             |
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>1d = Article group sales</b> | <b>( 3)</b>      |
| N        | 1        | Sales Type         | 0 - 4d                          | ( 1)             |
|          |          |                    | 0 = PLU share                   |                  |
|          |          |                    | 1 = Hand+ share                 |                  |
|          |          |                    | 2 = Hand- share                 |                  |
|          |          |                    | 3 = Miscellaneous share         |                  |
|          |          |                    | 4 = Total Article Groups        |                  |
| N        | 11       | Sales Revenue      | (without decimal point)         | (11)             |
| N        | 11       | Sales by Weight    | (g)                             | (11)             |
| N        | 11       | Number of Entries  |                                 | (11)             |
| N        | 11       | Margin             | (without decimal point)         | (11) only for L2 |
|          |          |                    |                                 | -----            |
|          |          |                    |                                 | (64)             |



| <i>Specific Values</i> |          |                       |                             | <i>only for L2</i> |
|------------------------|----------|-----------------------|-----------------------------|--------------------|
| N                      | 1        | RSP                   | 1,3d                        | ( 1)               |
| N                      | 5        | Code                  | 504d                        | ( 5)               |
| F                      | 4        | Control               | see Definition              | ( 4)               |
| N                      | 4        | Department            | 1 - 9999d                   | ( 4)               |
| N                      | 2        | Scale Number          | 0d                          | ( 2)               |
| <b>N</b>               | <b>3</b> | <b>Record Type</b>    | <b>2d = Specific Values</b> | <b>( 3)</b>        |
| N                      | 11       | Average Selling Price | +/- 0-999999d               | (11)               |
| N                      | 11       | Sales/Entries         | (without decimal point)     | (11)               |
| N                      | 11       | Margin/Entries        | (without decimal point)     | (11)               |
|                        |          |                       |                             | -----              |
|                        |          |                       |                             | (52)               |
| <i>End</i>             |          |                       |                             |                    |
| N                      | 1        | RSP                   | 1,3d                        | ( 1)               |
| N                      | 5        | Code                  | 504d                        | ( 5)               |
| F                      | 4        | Control               | see Definition              | ( 4)               |
| N                      | 4        | Department            | 0 - 9999d                   | ( 4)               |
| N                      | 2        | Scale Number          | 0d                          | ( 2)               |
| <b>N</b>               | <b>3</b> | <b>Record Type</b>    | <b>255d = End Of Report</b> | <b>( 3)</b>        |
|                        |          |                       |                             | -----              |
|                        |          |                       |                             | (19)               |

## Access Code: 505

### Function: Article

#### Article Sales Report According to PLU or EAN

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE05 LE06 LE07 LE08 LE09 LE10 LE11 LE12 LE13 LE14 LE15 LE16 LE17 LE18 LE19 LE20 LE21 LE22 LE23 LE24 LE25 LE26 LE27 LE28 LE29 LE30 LE31 LE32 LE33 LE34 LE35 LE36 LE37 LE38 LE39 LE40 LE41 LE42 LE43 LE44 LE45 LE46 LE47 LE48 LE49 LE50 LE51 LE52 LE53 LE54 LE55 LE56 LE57 LE58 LE59 LE60 LE61 LE62 LE63 LE64 LE65 LE66 LE67 LE68 LE69 LE70 LE71 LE72 LE73 LE74 LE75 LE76 LE77 LE78 LE79 LE80 LE81 LE82 LE83 LE84 LE85 LE86 LE87 LE88 LE89 LE90 LE91 LE92 LE93 LE94 LE95 LE96 LE97 LE98 LE99 LF03

#### Command

|   |    |                   |                               |                  |
|---|----|-------------------|-------------------------------|------------------|
| N | 1  | CMD               | 0d                            | ( 1)             |
| N | 5  | Code              | 505d                          | ( 5)             |
| F | 4  | Control           | see Definition                | ( 4)             |
| N | 4  | Department        | 0 - 9999d                     | ( 4)             |
|   |    |                   | 0 = all departments           |                  |
| N | 2  | Scale Number      | 0d                            | ( 2)             |
| N | 1  | Short/Long report | 0 - 1d                        | ( 1) only for L2 |
|   |    |                   | 0d = Short report             |                  |
|   |    |                   | 1d = Long report              |                  |
| N | 1  | PLU/EAN           | 0 - 1d                        | ( 1) only for L2 |
|   |    |                   | 0d = PLU                      |                  |
|   |    |                   | 1d = EAN                      |                  |
| N | 6  | from PLU Number   | 0 - 999999d                   | ( 6)             |
|   |    |                   | 0 = lowest PLU number         |                  |
| C | 13 | from EAN Number   | ASCII numbers                 | (13) only for L2 |
|   |    |                   | 13 x '0' = lowest EAN number  |                  |
| N | 6  | to PLU Number     | 0 - 999999d                   | ( 6)             |
|   |    |                   | 0 = highest PLU number        |                  |
| C | 13 | to EAN Number     | ASCII numbers                 | (13) only for L2 |
|   |    |                   | 13 x '0' = highest EAN number |                  |
|   |    |                   |                               | -----            |
|   |    |                   |                               | (56)             |

#### Response (Multi-block, for unformatted output)

|                   |          |                        |                         |                  |
|-------------------|----------|------------------------|-------------------------|------------------|
| <i>Department</i> |          |                        |                         |                  |
| N                 | 1        | RSP                    | 1,3d                    | ( 1)             |
| N                 | 5        | Code                   | 505d                    | ( 5)             |
| F                 | 4        | Control                | see Definition          | ( 4)             |
| N                 | 4        | Department             | 1 - 9999d               | ( 4)             |
| N                 | 2        | Scale Number           | 0d                      | ( 2)             |
| <b>N</b>          | <b>3</b> | <b>Record Type</b>     | <b>0d = Department</b>  | <b>( 3)</b>      |
| N                 | 4        | Department             | 1 - 9999d               | ( 4)             |
| C                 | 20       | Department description | ASCII character         | (20)             |
|                   |          |                        |                         | -----            |
|                   |          |                        |                         | (43)             |
| <i>Article</i>    |          |                        |                         |                  |
| N                 | 1        | RSP                    | 1,3d                    | ( 1)             |
| N                 | 5        | Code                   | 505d                    | ( 5)             |
| F                 | 4        | Control                | see Definition          | ( 4)             |
| N                 | 4        | Department             | 1 - 9999d               | ( 4)             |
| N                 | 2        | Scale Number           | 0d                      | ( 2)             |
| <b>N</b>          | <b>3</b> | <b>Record Type</b>     | <b>1d = Article</b>     | <b>( 3)</b>      |
| N                 | 6        | PLU Number             | 1 - 999999d             | ( 6)             |
| C                 | 13       | EAN Number             | ASCII numbers           | (13)             |
| C                 | 20       | Article Description    | ASCII character         | (20)             |
| N                 | 11       | Sales Revenue          | (without decimal point) | (11)             |
| N                 | 11       | Sales in Weight        | (g)                     | (11)             |
| N                 | 11       | Number of Entries      |                         | (11)             |
| N                 | 11       | Margin                 | (without decimal point) | (11) only for L2 |
|                   |          |                        |                         | -----            |
|                   |          |                        |                         | (102)            |

| <i>Specific Values (only for Long report)</i> |          |                       |                             | <i>only for L2</i> |
|---|----------|-----------------------|-----------------------------|--------------------|
| N   | 1        | RSP                   | 1,3d                        | ( 1)               |
| N   | 5        | Code                  | 505d                        | ( 5)               |
| F   | 4        | Control               | see Definition              | ( 4)               |
| N   | 4        | Department            | 1 - 9999d                   | ( 4)               |
| N   | 2        | Scale Number          | 0d                          | ( 2)               |
| <b>N</b>                                      | <b>3</b> | <b>Record Type</b>    | <b>2d = Specific Values</b> | <b>( 3)</b>        |
| N   | 11       | Average Selling Price | +/- 0-999999d               | (11)               |
| N   | 11       | Sales/Entries         | (without decimal point)     | (11)               |
| N   | 11       | Margin/Entries        | (without decimal point)     | (11)               |
|   |          |                       |                             | -----              |
| <i>Hand + / - / Miscellaneous</i>             |          |                       |                             | (52)               |
| N   | 1        | RSP                   | 1,3d                        | ( 1)               |
| N   | 5        | Code                  | 505d                        | ( 5)               |
| F   | 4        | Control               | see Definition              | ( 4)               |
| N   | 4        | Department            | 1 - 9999d                   | ( 4)               |
| N   | 2        | Scale Number          | 0d                          | ( 2)               |
| <b>N</b>                                      | <b>3</b> | <b>Record Type</b>    | <b>3d = Hand + / - / M.</b> | <b>( 3)</b>        |
| N   | 1        | Sales Type            | 1 - 3d                      | ( 1)               |
| 1 = hand+ share                               |          |                       |                             |                    |
| 2 = hand- share                               |          |                       |                             |                    |
| 3 = miscellaneous - share I                   |          |                       |                             |                    |
| N   | 11       | Sales Revenue         | (without decimal point)     | (11)               |
| N   | 11       | Sales by Weight       | (g)                         | (11)               |
| N   | 11       | Number of Entries     | (11)                        |                    |
| N   | 11       | Margin                | (without decimal point)     | (11) only for L2   |
|   |          |                       |                             | -----              |
| <i>End</i>                                    |          |                       |                             | (64)               |
| N   | 1        | RSP                   | 1,3d                        | ( 1)               |
| N   | 5        | Code                  | 505d                        | ( 5)               |
| F   | 4        | Control               | see Definition              | ( 4)               |
| N   | 4        | Department            | 0 - 9999d                   | ( 4)               |
| N   | 2        | Scale Number          | 0d                          | ( 2)               |
| <b>N</b>                                      | <b>3</b> | <b>Record Type</b>    | <b>255d = End Of Report</b> | <b>( 3)</b>        |
|   |          |                       |                             | -----              |
|   |          |                       |                             | (19)               |

## Access Code: 506

### Function: Best Selling Articles

Listing of article sales that achieve or exceed a given upper limit

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |    |              |                               |      |
|---|----|--------------|-------------------------------|------|
| N | 1  | CMD          | 0d                            | ( 1) |
| N | 5  | Code         | 506d                          | ( 5) |
| F | 4  | Control      | see Definition                | ( 4) |
| N | 4  | Department   | 0 - 9999d                     | ( 4) |
|   |    |              | <i>0 = all departments</i>    |      |
| N | 2  | Scale Number | 0d                            | ( 2) |
| N | 1  | Limit Type   | 0 - 2 d                       | ( 1) |
|   |    |              | <i>0 = amount</i>             |      |
|   |    |              | <i>1 = entries</i>            |      |
|   |    |              | <i>2 = margin</i>             |      |
| N | 1  | Abs./Percent | 0 - 1d                        | ( 1) |
|   |    |              | <i>0 = absolute</i>           |      |
|   |    |              | <i>1 = rate as percentage</i> |      |
| N | 11 | Limit        | (without decimal point)       | (11) |
|   |    |              | -----                         |      |
|   |    |              |                               | (29) |

#### Response (Multi-block, for unformatted output)

|                   |          |                      |                         |             |
|-------------------|----------|----------------------|-------------------------|-------------|
| <i>Department</i> |          |                      |                         |             |
| N                 | 1        | RSP                  | 1,3d                    | ( 1)        |
| N                 | 5        | Code                 | 506d                    | ( 5)        |
| F                 | 4        | Control              | see definition          | ( 4)        |
| N                 | 4        | Department           | 1 - 9999d               | ( 4)        |
| N                 | 2        | Scale Number         | 0d                      | ( 2)        |
| <b>N</b>          | <b>3</b> | <b>Record Type</b>   | <b>0d = Department</b>  | <b>( 3)</b> |
| N                 | 4        | Department           | 1 - 9999d               | ( 4)        |
| C                 | 20       | Department Descript. | ASCII characters        | (20)        |
|                   |          |                      | -----                   |             |
|                   |          |                      |                         | (43)        |
| <i>Article</i>    |          |                      |                         |             |
| N                 | 1        | RSP                  | 1,3d                    | ( 1)        |
| N                 | 5        | Code                 | 506d                    | ( 5)        |
| F                 | 4        | Control              | see Definition          | ( 4)        |
| N                 | 4        | Department           | 1 - 9999d               | ( 4)        |
| N                 | 2        | Scale Number         | 0d                      | ( 2)        |
| <b>N</b>          | <b>3</b> | <b>Record Type</b>   | <b>1d = Article</b>     | <b>( 3)</b> |
| N                 | 6        | PLU Number           | 1 - 999999d             | ( 6)        |
| C                 | 13       | EAN Number           | ASCII numbers           | (13)        |
| C                 | 20       | Article Description  | ASCII character         | (20)        |
| N                 | 11       | Sales Revenue        | (without decimal point) | (11)        |
| N                 | 11       | Sales in Weight      | (in g)                  | (11)        |
| N                 | 11       | Number of Entries    |                         | (11)        |
| N                 | 11       | Margin               | (without decimal point) | (11)        |
|                   |          |                      | -----                   |             |
|                   |          |                      |                         | (102)       |

*Specific Values*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 506d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>2d = Specific Values</b> | <b>( 3)</b> |
| N        | 11       | Ave. Selling Price | +/- 0-999999d               | (11)        |
| N        | 11       | Sales/Entries      | (without decimal point)     | (11)        |
| N        | 11       | Margin/Entries     | (without decimal point)     | (11)        |

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(52)

*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 506d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 507

### Function: Worst Selling Articles

Listing of Article Sales, which fall below a given Lower Limit

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |    |               |                            |      |
|---|----|---------------|----------------------------|------|
| N | 1  | CMD           | 0d                         | ( 1) |
| N | 5  | Code          | 507d                       | ( 5) |
| F | 4  | Control       | see Definition             | ( 4) |
| N | 4  | Department    | 0 - 9999d                  | ( 4) |
|   |    |               | <i>0 = all departments</i> |      |
| N | 2  | Scale Number  | 0d                         | ( 2) |
| N | 1  | Limit Type    | 0 - 2 d                    | ( 1) |
|   |    |               | <i>0 = amount</i>          |      |
|   |    |               | <i>1 = entries</i>         |      |
|   |    |               | <i>2 = margin</i>          |      |
| N | 1  | Abs./Percent. | 0 - 1d                     | ( 1) |
|   |    |               | <i>0 = absolute</i>        |      |
|   |    |               | <i>1 = percentage</i>      |      |
| N | 11 | Limit         | (without decimal point)    | (11) |
|   |    |               | -----                      |      |
|   |    |               |                            | (29) |

#### Response (Multi-block, for unformatted output)

|                   |          |                        |                        |             |
|-------------------|----------|------------------------|------------------------|-------------|
| <i>Department</i> |          |                        |                        |             |
| N                 | 1        | RSP                    | 1,3d                   | ( 1)        |
| N                 | 5        | Code                   | 507d                   | ( 5)        |
| F                 | 4        | Control                | see Definition         | ( 4)        |
| N                 | 4        | Department             | 1 - 9999d              | ( 4)        |
| N                 | 2        | Scale Number           | 0d                     | ( 2)        |
| <b>N</b>          | <b>3</b> | <b>Record Type</b>     | <b>0d = Department</b> | <b>( 3)</b> |
| N                 | 4        | Department             | 1 - 9999d              | ( 4)        |
| C                 | 20       | Department Description | ASCII character        | (20)        |
|                   |          |                        | -----                  |             |
|                   |          |                        |                        | (43)        |

|                |          |                     |                         |             |
|----------------|----------|---------------------|-------------------------|-------------|
| <i>Article</i> |          |                     |                         |             |
| N              | 1        | RSP                 | 1,3d                    | ( 1)        |
| N              | 5        | Code                | 507d                    | ( 5)        |
| F              | 4        | Control             | see Definition          | ( 4)        |
| N              | 4        | Department          | 1 - 9999d               | ( 4)        |
| N              | 2        | Scale Number        | 0d                      | ( 2)        |
| <b>N</b>       | <b>3</b> | <b>Record Type</b>  | <b>1d = Article</b>     | <b>( 3)</b> |
| N              | 6        | PLU Number          | 1 - 999999d             | ( 6)        |
| C              | 13       | EAN Number          | ASCII numbers           | (13)        |
| C              | 20       | Article Description | ASCII character         | (20)        |
| N              | 11       | Sales Revenue       | (without decimal point) | (11)        |
| N              | 11       | Sales in Weight     | (g)                     | (11)        |
| N              | 11       | Number of Entries   |                         | (11)        |
| N              | 11       | Margin              | (without decimal point) | (11)        |
|                |          |                     | -----                   |             |
|                |          |                     |                         | (102)       |

*Specific Values*

|          |          |                    |                             |                    |
|----------|----------|--------------------|-----------------------------|--------------------|
| N        | 1        | RSP                | 1,3d                        | ( 1)               |
| N        | 5        | Code               | 507d                        | ( 5)               |
| F        | 4        | Control            | see Definition              | ( 4)               |
| N        | 4        | Department         | 1 - 9999d                   | ( 4)               |
| N        | 2        | Scale Number       | 0d                          | ( 2)               |
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>2d = Specific Values</b> | <b>( 3)</b>        |
| N        | 11       | Average            | Selling Price               | +/- 0-999999d (11) |
| N        | 11       | Sales/Entries      | (without decimal point)     | (11)               |
| N        | 11       | Margin/Entries     | (without decimal point)     | (11)               |

-----  
(52)

*End*

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| N        | 1        | RSP                | 1,3d                        | ( 1)        |
| N        | 5        | Code               | 507d                        | ( 5)        |
| F        | 4        | Control            | see Definition              | ( 4)        |
| N        | 4        | Department         | 0 - 9999d                   | ( 4)        |
| N        | 2        | Scale Number       | 0d                          | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |

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(19)

## Access Code: 508

### Function: Special Offer

Listing of sales due to all currently running and closed special offers according to special offer number

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03 Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

|   |   |                           |   |       |
|---|---|---------------------------|---|-------|
| N | 1 | CMD                       | 0d                                      | ( 1)  |
| N | 5 | Code                      | 508d                                    | ( 5)  |
| F | 4 | Control                   | see Definition                          | ( 4)  |
| N | 4 | Department                | 0d                                      | ( 4)  |
| N | 2 | Scale Number              | 0d                                      | ( 2)  |
|   |   |                           |   |       |
| N | 4 | from Special Offer Number | 0 - 9999d                               | ( 4)  |
|   |   |                           | <i>0 = lowest special offer number</i>  |       |
| N | 4 | to Special Offer Number   | 0 - 9999d                               | ( 4)  |
|   |   |                           | <i>0 = highest special offer number</i> |       |
|   |   |                           |   | ----- |
|   |   |                           |   | (24)  |

#### Response (Multi-block, for unformatted output)

##### Special Offer

|          |          |                      |                                    |             |
|----------|----------|----------------------|------------------------------------|-------------|
| N        | 1        | RSP                  | 1,3d                               | ( 1)        |
| N        | 5        | Code                 | 508d                               | ( 5)        |
| F        | 4        | Control              | see Definition                     | ( 4)        |
| N        | 4        | Department           | 0d                                 | ( 4)        |
| N        | 2        | Scale Number         | 0d                                 | ( 2)        |
|          |          |                      |                                    |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>0d = Special Offer.</b>         | <b>( 3)</b> |
| N        | 4        | Special Offer Number | 1 - 9999d                          | ( 4)        |
| C        | 20       | Special Offer Text   | ASCII character                    | (20)        |
| N        | 2[3]     | Start Date           | dd/mm/yy                           | ( 6)        |
| N        | 2[2]     | Start Time           | hh/mm                              | ( 4)        |
| N        | 2[3]     | End Date             | dd/mm/yy                           | ( 6)        |
| N        | 2[2]     | End Time             | hh/mm                              | ( 4)        |
| N        | 1        | Special Offer Status | 0 - 3d                             | ( 1)        |
|          |          |                      | <i>0 = special offer inactive</i>  |             |
|          |          |                      | <i>1 = special offer active</i>    |             |
|          |          |                      | <i>2 = special offer closed</i>    |             |
|          |          |                      | <i>3 = special offer available</i> |             |
|          |          |                      |                                    | -----       |

(46)

##### Special Offer sales

|          |          |                     |                                 |             |
|----------|----------|---------------------|---------------------------------|-------------|
| N        | 1        | RSP                 | 1,3d                            | ( 1)        |
| N        | 5        | Code                | 508d                            | ( 5)        |
| F        | 4        | Control             | see Definition                  | ( 4)        |
| N        | 4        | Department          | 0d                              | ( 4)        |
| N        | 2        | Scale Number        | 0d                              | ( 2)        |
|          |          |                     |                                 |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>  | <b>1d = Special offer sales</b> | <b>( 3)</b> |
| N        | 4        | Department number   | 1 - 9999d                       | ( 4)        |
| N        | 6        | PLU number          | 1 - 999999d                     | ( 6)        |
| C        | 20       | Article description | ASCII character                 | (20)        |
| N        | 11       | Sales Revenue       | (without decimal point)         | (11)        |
| N        | 11       | Sales in Weight     | (g)                             | (11)        |
| N        | 11       | Number of Entries   | (11)                            | (11)        |
| N        | 11       | Margin              | (without decimal point)         | (11)        |
|          |          |                     |                                 | -----       |

(93)



*SO Special Offer sales total*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 508d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                          |             |
|----------|----------|--------------------|--------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record-Type</b> | <b>2d=SO Total Sales</b> | <b>( 3)</b> |
| N        | 11       | Sales Revenue      | (without decimal point)  | (11)        |
| N        | 11       | Sales by Weight    | (g)                      | (11)        |
| N        | 11       | Number of Entries  | (11)                     |             |
| N        | 11       | Margin             | (without decimal point)  | (11)        |

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(63)*Specific Values*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 508d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>3d = Specific Values</b> | <b>( 3)</b> |
| N        | 11       | Sales/Entries      | (without decimal point)     | (11)        |
| N        | 11       | Margin/Entries     | (without decimal point)     | (11)        |

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(41)*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 508d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 509

### Function: Article Price Changes

Lists price changes

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | CMD          | 0d             | ( 1)  |
| N | 5 | Code         | 509d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 0d             | ( 4)  |
| N | 2 | Scale Number | 0d             | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response (Multi-block, for unformatted output)

##### Price modifications

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 509d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                                   |             |
|----------|----------|--------------------|-----------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>0d = Price modification</b>    | <b>( 3)</b> |
| N        | 4        | Department Number  | 1 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number       | 1 - 64d                           | ( 2)        |
| N(C)     | 2        | Operator Number    | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 2[3]     | Date               | dd/mm/yy                          | ( 6)        |
| N        | 2[2]     | Time               | hh/mm                             | ( 4)        |

|   |   |            |        |  |
|---|---|------------|--------|--|
| N | 1 | Price Type | 0 - 3d | ( 1)   |
|   |   |            |        | <i>0 = Selling Price 1</i>   |
|   |   |            |        | <i>1 = Selling Price 2</i> <span style="float: right;"><i>only for L2</i></span> |
|   |   |            |        | <i>2 = Staggered block price 1</i>   |
|   |   |            |        | <i>3 = Staggered block price 2</i>   |

|   |    |                     |                  |      |
|---|----|---------------------|------------------|------|
| N | 6  | PLU Number          | 1 - 999999d      | ( 6) |
| C | 20 | Article Description | ASCII character  | (20) |
| N | 8  | Old Price           | +/- 0-999999(9)d | ( 8) |
| N | 8  | New Price           | +/- 0-999999(9)d | ( 8) |

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(86)

##### End

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 509d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 510

### Function: Sales – Time Based

#### Listing of Sales According to Time of Day or Day of the Week

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                           |   |      |
|---|---|---------------------------|---|------|
| N | 1 | CMD                       | 0d  | ( 1) |
| N | 5 | Code                      | 510d  | ( 5) |
| F | 4 | Control                   | see Definition  | ( 4) |
| N | 4 | Department                | 0 - 9999d   | ( 4) |
| N | 2 | Scale Number              | 0d  | ( 2) |
|   |   |                           |   |      |
| N | 1 | Time of Day / Day of Week | 0 - 1d<br><i>0 = time of day</i><br><i>1 = day of week</i>                                      | ( 1) |
| N | 2 | From Time/Day             | 0-24d or 0-7d<br><i>1: 0-1 hrs / 24: 23-24 hrs</i><br><i>or</i><br><i>1: Monday / 7: Sunday</i> | ( 2) |
| N | 2 | To Time/Day               | 0-24d or 0-7d<br><i>1: 0-1 hrs / 24: 23-24 hrs</i><br><i>or</i><br><i>1: Monday / 7: Sunday</i> | ( 2) |

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(21)

#### Response (Multi-block, for unformatted output)

*Department*

|          |          |                        |                        |             |
|----------|----------|------------------------|------------------------|-------------|
| N        | 1        | RSP                    | 1,3d                   | ( 1)        |
| N        | 5        | Code                   | 510d                   | ( 5)        |
| F        | 4        | Control                | see Definition         | ( 4)        |
| N        | 4        | Department             | 1 - 9999d              | ( 4)        |
| N        | 2        | Scale Number           | 0d                     | ( 2)        |
|          |          |                        |                        |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>     | <b>0d = Department</b> | <b>( 3)</b> |
| N        | 4        | Department             | 1 - 9999d              | ( 4)        |
| C        | 20       | Department Description | ASCII character        | (20)        |

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(43)

*Time of day/Day of the week*

|          |          |                              |                         |      |
|----------|----------|------------------------------|-------------------------|------|
| N        | 1        | RSP                          | 1,3d                    | ( 1) |
| N        | 5        | Code                         | 510d                    | ( 5) |
| F        | 4        | Control                      | see Definition          | ( 4) |
| N        | 4        | Department                   | 1 - 9999d               | ( 4) |
| N        | 2        | Scale Number                 | 0d                      | ( 2) |
|          |          |                              |                         |      |
| <b>N</b> | <b>3</b> | <b>Record Type</b>           | <b>1d=Time/Day ( 3)</b> |      |
| N        | 1        | Time of Day /Day of the Week | 0 - 1d                  | ( 1) |
| N        | 2        | From Time/Day                | 1-24d or 1-7d           | ( 2) |

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(22)

*Sales*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 510d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                     |                         |             |
|----------|----------|---------------------|-------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>  | <b>2d = Sales</b>       | <b>( 3)</b> |
| N        | 11       | Sales Revenue       | (without decimal point) | (11)        |
| N        | 11       | Sales in Weight     | (g)                     | (11)        |
| N        | 11       | Number of Entries   | (11)                    |             |
| N        | 11       | Number of Customers | (11)                    |             |

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(63)

*Specific Values*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 510d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>3d = Specific Values</b> | <b>( 3)</b> |
| N        | 11       | Sales/Customer     | (without decimal point)     | (11)        |
| N        | 11       | Entries/Customer   |                             | (11)        |

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(41)

*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 510d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 511

### Function: Summary Journal

Listing of Receipt Totals for a specified time period

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |      |              |                |       |
|---|------|--------------|----------------|-------|
| N | 1    | CMD          | 0d             | ( 1)  |
| N | 5    | Code         | 511d           | ( 5)  |
| F | 4    | Control      | see Definition | ( 4)  |
| N | 4    | Department   | 0d             | ( 4)  |
| N | 2    | Scale Number | 0d             | ( 2)  |
|   |      |              |                |       |
| N | 2[3] | From Date    | dd / mm / yy   | ( 6)  |
| N | 2[2] | From Time    | hh / mm        | ( 4)  |
|   |      |              |                |       |
| N | 2[3] | To Date      | dd / mm / yy   | ( 6)  |
| N | 2[2] | To Time      | hh / mm        | ( 4)  |
|   |      |              |                | ----- |
|   |      |              |                | (36)  |

#### Response (Multi-block, for unformatted output)

##### Receipt totals

|            |          |                      |                                   |   |
|------------|----------|----------------------|-----------------------------------|---|
| N          | 1        | RSP                  | 1,3d                              | ( 1)  |
| N          | 5        | Code                 | 511d                              | ( 5)  |
| F          | 4        | Control              | see Definition                    | ( 4)  |
| N          | 4        | Department           | 0d                                | ( 4)  |
| N          | 2        | Scale Number         | 0d                                | ( 2)  |
|            |          |                      |                                   |   |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>0d = Receipt totals</b>        | <b>( 3)</b>   |
| N          | 4        | Receipt Number       | 0 - 9999d                         | ( 4)  |
| N          | 2[3]     | Date                 | dd / mm / yy                      | ( 6)  |
| N          | 2[2]     | Time                 | hh / mm                           | ( 4)  |
| N          | 4        | Department Number    | 1 - 9999d                         | ( 4)  |
| N          | 2        | Scale Number         | 1 - 64d                           | ( 2)  |
| N(C)       | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)  |
| N          | 1        | Booking/Cancellation | 0 - 1d                            | ( 1)  |
|            |          |                      |                                   | <i>0d = booking</i>   |
|            |          |                      |                                   | <i>1d = cancellation</i>  |
| N          | 1        | Type of Sale         | 0 - 3d                            | ( 1)  |
|            |          |                      |                                   | <i>0 = total receipt regular sale</i>   |
|            |          |                      |                                   | <i>1 = total receipt personnel sale</i> <span style="float: right;"><i>only for L2</i></span> |
|            |          |                      |                                   | <i>2 = checkout-slips</i> <span style="float: right;"><i>only for L2</i></span>               |
|            |          |                      |                                   | <i>3 = orders</i> <span style="float: right;"><i>only for L2</i></span>                       |
| N          | 11       | Number of Entries    |                                   | (11)  |
| N          | 11       | Total Weight         | (g)                               | (11)  |
| N          | 11       | Total Amount         | (without decimal point)           | (11)  |
| N          | 11       | Margin               | (without decimal point)           | (11) <span style="float: right;"><i>only for L2</i></span>                                    |
|            |          |                      |                                   | -----   |
|            |          |                      |                                   | (87)  |
| <i>End</i> |          |                      |                                   |   |
| N          | 1        | RSP                  | 1,3d                              | ( 1)  |
| N          | 5        | Code                 | 511d                              | ( 5)  |
| F          | 4        | Control              | see Definition                    | ( 4)  |
| N          | 4        | Department           | 0d                                | ( 4)  |
| N          | 2        | Scale Number         | 0d                                | ( 2)  |
|            |          |                      |                                   |   |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>255d = End Of Report</b>       | <b>( 3)</b>   |
|            |          |                      |                                   | -----   |
|            |          |                      |                                   | (19)  |

## Access Code: 512

### Function: Detailed Journal

Full listing of all receipts in a given range of receipt numbers

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LF09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |      |                     |                |       |
|---|------|---------------------|----------------|-------|
| N | 1    | CMD                 | 0d             | ( 1)  |
| N | 5    | Code                | 512d           | ( 5)  |
| F | 4    | Control             | see Definition | ( 4)  |
| N | 4    | Department          | 0d             | ( 4)  |
| N | 2    | Scale Number        | 0d             | ( 2)  |
|   |      |                     |                |       |
| N | 2[3] | From Date           | dd / mm / yy   | ( 6)  |
| N | 4    | From Receipt Number | 0 - 9999d      | ( 4)  |
| N | 4    | To Receipt Number   | 0 - 9999d      | ( 4)  |
|   |      |                     |                | ----- |
|   |      |                     |                | (30)  |

#### Response (Multi-block, for unformatted output)

|   |      |                      |  |                  |
|---|------|----------------------|--|------------------|
| <i>Booking / Single Entry Receipt / Blank Receipt</i> |      |                      |  |                  |
| N   | 1    | RSP                  | 1,3d   | ( 1)             |
| N   | 5    | Code                 | 512d   | ( 5)             |
| F   | 4    | Control              | see Definition   | ( 4)             |
| N   | 4    | Department           | 0d   | ( 4)             |
| N   | 2    | Scale Number         | 0d   | ( 2)             |
|   |      |                      |  |                  |
| N   | 3    | <b>Record Type</b>   | <b>0 - 2d</b>  | <b>( 3)</b>      |
|   |      |                      | <i>0 = booking</i>   |                  |
|   |      |                      | <i>1 = single entry receipt</i>                                      |                  |
|   |      |                      | <i>2 = blank receipt</i>   |                  |
| N   | 4    | Receipt Number       | 0 - 9999d  | ( 4)             |
| N   | 2[3] | Date                 | dd / mm / yy   | ( 6)             |
| N   | 2[2] | Time                 | hh / mm  | ( 4)             |
| N   | 4    | Department number    | 1 - 9999d  | ( 4)             |
| N   | 2    | Scale Number         | 1 - 64d  | ( 2)             |
| N(C)  | 2    | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack'                                    | ( 2)             |
| N   | 1    | Booking/Cancellation | 0 - 1d   | ( 1)             |
|   |      |                      | <i>0d = booking</i>  |                  |
|   |      |                      | <i>1d = cancellation</i>   |                  |
| N   | 1    | Booking Type         | 0 - 4d   | ( 1)             |
|   |      |                      | <i>0 = PLU (Weigh)</i>   |                  |
|   |      |                      | <i>1 = miscellaneous</i>   |                  |
|   |      |                      | <i>2 = PLU (non-weigh)</i>   |                  |
|   |      |                      | <i>3 = hand +</i>  |                  |
|   |      |                      | <i>4 = hand -</i>  |                  |
| N   | 1    | Price Type           | 0 - 9d   | ( 1)             |
|   |      |                      | <i>0 = selling Price 1</i>   |                  |
|   |      |                      | <i>1 = selling Price 2</i>   |                  |
|   |      |                      | <i>2 = staggered block price 1</i>                                   |                  |
|   |      |                      | <i>3 = staggered block price 2</i>                                   |                  |
|   |      |                      | <i>4 = open price 1</i>  |                  |
|   |      |                      | <i>5 = open price 2</i>  |                  |
|   |      |                      | <i>6 = hand + 1</i>  |                  |
|   |      |                      | <i>7 = hand + 2</i>  |                  |
|   |      |                      | <i>8 = special offer price 1</i>                                     |                  |
|   |      |                      | <i>9 = special offer price 2</i>                                     |                  |
| N   | 6    | PLU- number          | 1 - 999999d  | ( 6)             |
|   |      |                      | <i>for booking-type 0, 3 and 4 with article-group allocation</i>     |                  |
|   |      |                      | <i>their number is registered instead of the PLU-number</i>          |                  |
|   |      |                      | <i>(without an article-group 0 is registered -&gt; swamp-memory)</i> |                  |
| N   | 11   | Weight/Quantity      | (g, pieces)  | (11)             |
| N   | 11   | Amount               | (without decimal point)  | (11)             |
| N   | 11   | Margin               | (without decimal point)  | (11) only for L2 |
|   |      |                      |  | -----            |
|   |      |                      |  | (83)             |

*Receipt totals*

|          |          |                      |                                   |                    |
|----------|----------|----------------------|-----------------------------------|--------------------|
| N        | 1        | RSP                  | 1,3d                              | ( 1)               |
| N        | 5        | Code                 | 512d                              | ( 5)               |
| F        | 4        | Control              | see Definition                    | ( 4)               |
| N        | 4        | Department           | 0d                                | ( 4)               |
| N        | 2        | Scale Number         | 0d                                | ( 2)               |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>3d = Receipt totals</b>        | <b>( 3)</b>        |
| N        | 4        | Receipt Number       | 0 - 9999d                         | ( 4)               |
| N        | 2[3]     | Date                 | dd / mm / yy                      | ( 6)               |
| N        | 2[2]     | Time                 | hh / mm                           | ( 4)               |
| N        | 4        | Department Number    | 1 - 9999d                         | ( 4)               |
| N        | 2        | Scale Number         | 1 - 64d                           | ( 2)               |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)               |
| N        | 1        | Booking/Cancellation | 0 - 1d                            | ( 1)               |
|          |          |                      | <i>0d = booking</i>               |                    |
|          |          |                      | <i>1d = cancellation</i>          |                    |
| N        | 1        | Type of Sale         | 0 - 1d                            | ( 1)               |
|          |          |                      | <i>0 = regular sale</i>           |                    |
|          |          |                      | <i>1 = personnel Sale</i>         | <i>only for L2</i> |
|          |          |                      | <i>2 = checkout-Slips</i>         |                    |
|          |          |                      | <i>3 = orders</i>                 |                    |
| N        | 11       | Number of Entries    |                                   | (11)               |
| N        | 11       | Total Weight         | (g)                               | (11)               |
| N        | 11       | Total Amount         | (without decimal point)           | (11)               |
| N        | 11       | Margin               | (without decimal point)           | (11) only for L2   |

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(87)*Payment Method*

|          |          |                       |  |             |
|----------|----------|-----------------------|--|-------------|
| N        | 1        | RSP                   | 1,3d                                     | ( 1)        |
| N        | 5        | Code                  | 512d                                     | ( 5)        |
| F        | 4        | Control               | see Definition                           | ( 4)        |
| N        | 4        | Department            | 0d                                       | ( 4)        |
| N        | 2        | Scale                 | 0d                                       | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>    | <b>4d = Payment Method</b>               | <b>( 3)</b> |
| N        | 4        | Receipt Number        | 0 - 9999d                                | ( 4)        |
| N        | 2[3]     | Date                  | dd / mm / yy                             | ( 6)        |
| N        | 2[2]     | Time                  | hh / mm                                  | ( 4)        |
| N        | 4        | Department Number     | 1 - 9999d                                | ( 4)        |
| N        | 2        | Scale Number          | 1 - 64d                                  | ( 2)        |
| N(C)     | 2        | Operator Number       | 1 - 99d, 'Self-Serve', 'Pre-Pack'        | ( 2)        |
| N        | 1        | Booking/Cancellation  | 0 - 1d                                   | ( 1)        |
|          |          |                       | <i>0d = booking</i>                      |             |
|          |          |                       | <i>1d = cancellation</i>                 |             |
| N        | 1        | Payment Method Number | 0 - 9d                                   | ( 1)        |
| N        | 11       | Given Amount          | (without decimal point)                  | (11)        |
| C        | 3        | Abbreviation          | ASCII character                          | ( 3)        |
| N        | 1        | Decimal Places        | 0 - 3d                                   | ( 1)        |
| N        | 1        | Rounding              | 0: to nearest 'one' 1: to nearest 'five' | ( 1)        |
| N        | 11       | Factor                | (Exchange rate)                          | (11)        |
| N        | 11       | Rate                  | (without decimal point)                  | (11)        |

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(81)

*Change returned*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 512d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                      |                                   |             |
|----------|----------|----------------------|-----------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>5d = Change returned</b>       | <b>( 3)</b> |
| N        | 4        | Receipt Number       | 0 - 9999d                         | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy                      | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm                           | ( 4)        |
| N        | 4        | Department number    | 1 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d                           | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d                            | ( 1)        |

*0d = booking**1d = cancellation*

|   |    |       |  |      |
|---|----|-------|--|------|
| N | 11 | Given | (Sum of all Payment Methods without decimal point in local currency) | (11) |
|---|----|-------|--|------|

|   |    |       |                         |      |
|---|----|-------|-------------------------|------|
| N | 11 | Total | (without decimal point) | (11) |
|---|----|-------|-------------------------|------|

|   |    |                 |                         |      |
|---|----|-----------------|-------------------------|------|
| N | 11 | Change Returned | (without decimal point) | (11) |
|---|----|-----------------|-------------------------|------|

-----  
(75)*VAT*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 512d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                      |                                   |             |
|----------|----------|----------------------|-----------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record-Type</b>   | <b>6d = VAT</b>                   | <b>( 3)</b> |
| N        | 4        | Receipt Number       | 0 - 9999d                         | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy                      | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm                           | ( 4)        |
| N        | 4        | Department number    | 1 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d                           | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d                            | ( 1)        |

*0d = booking**1d = cancellation*

|   |   |            |         |      |
|---|---|------------|---------|------|
| N | 2 | VAT Number | 0 - 15d | ( 2) |
|---|---|------------|---------|------|

|   |    |           |                         |      |
|---|----|-----------|-------------------------|------|
| N | 11 | VAT Sales | (without decimal point) | (11) |
|---|----|-----------|-------------------------|------|

-----  
(55)



|                         |          |                            |                                       |             |
|-------------------------|----------|----------------------------|---------------------------------------|-------------|
| <i>Article Discount</i> |          |                            |                                       |             |
| N                       | 1        | RSP                        | 1,3d                                  | ( 1)        |
| N                       | 5        | Code                       | 512d                                  | ( 5)        |
| F                       | 4        | Control                    | see Definition                        | ( 4)        |
| N                       | 4        | Department                 | 0d                                    | ( 4)        |
| N                       | 2        | Scale Number               | 0d                                    | ( 2)        |
| <b>N</b>                | <b>3</b> | <b>Record Type</b>         | <b>7d = Article Discount</b>          | <b>( 3)</b> |
| N                       | 4        | Receipt Number             | 0 - 9999d                             | ( 4)        |
| N                       | 2[3]     | Date                       | dd / mm / yy                          | ( 6)        |
| N                       | 2[2]     | Time                       | hh / mm                               | ( 4)        |
| N                       | 4        | Department Number          | 1 - 9999d                             | ( 4)        |
| N                       | 2        | Scale Number               | 1 - 64d                               | ( 2)        |
| N(C)                    | 2        | Operator Number            | 1 - 99d, 'Self-Serve', 'Pre-Pack'     | ( 2)        |
| N                       | 1        | Booking/Cancellation       | 0 - 1d                                | ( 1)        |
|                         |          |                            | <i>0d = booking</i>                   |             |
|                         |          |                            | <i>1d = cancellation</i>              |             |
| N                       | 6        | PLU Number                 | 1 - 999999d                           | ( 6)        |
| N                       | 1        | Mark-up / Discount Number  | 0 - 9d                                | ( 1)        |
| N                       | 5        | Percentage                 | +/- 0 - 9999d                         | ( 5)        |
|                         |          |                            | <i>Percentage +/-###.## (0-99.99)</i> |             |
| N                       | 11       | Amount                     | (without decimal point)               | (11)        |
| N                       | 11       | Mark-up / Discount amount. | (without decimal point)               | (11)        |
|                         |          |                            | -----                                 | (76)        |
| <i>Discount total</i>   |          |                            |                                       |             |
| N                       | 1        | RSP                        | 1,3d                                  | ( 1)        |
| N                       | 5        | Code                       | 512d                                  | ( 5)        |
| F                       | 4        | Control                    | see Definition                        | ( 4)        |
| N                       | 4        | Department                 | 0d                                    | ( 4)        |
| N                       | 2        | Scale Number               | 0d                                    | ( 2)        |
| <b>N</b>                | <b>3</b> | <b>Record Type</b>         | <b>8d = Discount subtotal</b>         | <b>( 3)</b> |
| N                       | 4        | Receipt Number             | 0 - 9999d                             | ( 4)        |
| N                       | 2[3]     | Date                       | dd / mm / yy                          | ( 6)        |
| N                       | 2[2]     | Time                       | hh / mm                               | ( 4)        |
| N                       | 4        | Department Number          | 1 - 9999d                             | ( 4)        |
| N                       | 2        | Scale Number               | 1 - 64d                               | ( 2)        |
| N(C)                    | 2        | Operator Number            | 1 - 99d, 'Self-Serve', 'Pre-Pack'     | ( 2)        |
| N                       | 1        | Booking/Cancellation       | 0 - 1d                                | ( 1)        |
|                         |          |                            | <i>0d = booking</i>                   |             |
|                         |          |                            | <i>1d = cancellation</i>              |             |
| N                       | 1        | Mark-up / Discount Number  | 0 - 9d                                | ( 1)        |
| N                       | 5        | Percentage                 | +/- 0 - 9999d                         | ( 5)        |
| N                       | 11       | Subtotal                   | (without decimal point)               | (11)        |
| N                       | 11       | Mark-up / Discount Amount  | (without decimal point)               | (11)        |
|                         |          |                            | -----                                 | (70)        |

*Customer number*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 512d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

**N 3 Record Type 9d = Customer number ( 3)**

|      |      |                      |              |      |
|------|------|----------------------|--------------|------|
| N    | 4    | Receipt Number       | 0 - 9999d    | ( 4) |
| N    | 2[3] | Date                 | dd / mm / yy | ( 6) |
| N    | 2[2] | Time                 | hh / mm      | ( 4) |
| N    | 4    | Department Number    | 1 - 9999d    | ( 4) |
| N    | 2    | Scale Number         | 1 - 64d      | ( 2) |
| N(C) | 2    | Operator Number      | 1 - 99d      | ( 2) |
| N    | 1    | Booking/Cancellation | 0 - 1d       | ( 1) |

*0d = booking**1d = cancellation*

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | Receipt Type | 0 - 1d | ( 1) |
|---|---|--------------|--------|------|

*0: checkout-slip**1: collection-slip*

|   |   |                 |           |      |
|---|---|-----------------|-----------|------|
| N | 4 | Customer Number | 0 - 9999d | ( 4) |
|---|---|-----------------|-----------|------|

-----  
(47)*Checkout-Slip / Collection-Slip*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 512d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

**N 3 Record Type 10d = Checkout-Slip / Collection-Slip ( 3)**

|      |      |                      |              |      |
|------|------|----------------------|--------------|------|
| N    | 4    | Receipt Number       | 0 - 9999d    | ( 4) |
| N    | 2[3] | Date                 | dd / mm / yy | ( 6) |
| N    | 2[2] | Time                 | hh / mm      | ( 4) |
| N    | 4    | Department Number    | 1 - 9999d    | ( 4) |
| N    | 2    | Scale Number         | 1 - 64d      | ( 2) |
| N(C) | 2    | Operator Number      | 1 - 99d      | ( 2) |
| N    | 1    | Booking/Cancellation | 0 - 1d       | ( 1) |

*0d = booking**1d = cancellation*

|   |   |              |        |      |
|---|---|--------------|--------|------|
| N | 1 | Receipt Type | 0 - 1d | ( 1) |
|---|---|--------------|--------|------|

*0: checkout-slip**1: collection-slip*

|   |   |                 |           |      |
|---|---|-----------------|-----------|------|
| N | 4 | Customer number | 0 - 9999d | ( 4) |
|---|---|-----------------|-----------|------|

|   |   |                      |           |      |
|---|---|----------------------|-----------|------|
| N | 4 | Customer Receipt No. | 0 - 9999d | ( 4) |
|---|---|----------------------|-----------|------|

|   |      |               |              |      |
|---|------|---------------|--------------|------|
| N | 2[3] | Customer Date | dd / mm / yy | ( 6) |
|---|------|---------------|--------------|------|

|   |      |               |         |      |
|---|------|---------------|---------|------|
| N | 2[2] | Customer Time | hh / mm | ( 4) |
|---|------|---------------|---------|------|

|   |    |                   |  |      |
|---|----|-------------------|--|------|
| N | 11 | Number of Entries |  | (11) |
|---|----|-------------------|--|------|

|   |    |       |                         |      |
|---|----|-------|-------------------------|------|
| N | 11 | Total | (without decimal point) | (11) |
|---|----|-------|-------------------------|------|

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(83)

*Electronic Cash*

|          |          |                      |                                |             |
|----------|----------|----------------------|--------------------------------|-------------|
| N        | 1        | RSP                  | 1,3d                           | ( 1)        |
| N        | 5        | Code                 | 512d                           | ( 5)        |
| F        | 4        | Control              | see Definition                 | ( 4)        |
| N        | 4        | Department           | 0d                             | ( 4)        |
| N        | 2        | Scale Number         | 0d                             | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record-Type</b>   | <b>11d = Electronic Cash</b>   | <b>( 3)</b> |
| N        | 4        | Receipt Number       | 0 - 9999d                      | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy                   | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm                        | ( 4)        |
| N        | 4        | Department Number    | 1 - 9999d                      | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d                        | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d                        | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d                         | ( 1)        |
|          |          |                      | <i>0d = booking</i>            |             |
|          |          |                      | <i>1d = cancellation</i>       |             |
| N        | 8        | Terminal-ID          | 0 - 99999999d                  | ( 8)        |
| N        | 4        | Receipt Number       | 0 - 9999d                      | ( 4)        |
| N        | 6        | Trace Number         | 0 - 999999d                    | ( 6)        |
| N        | 3        | Card Type            | 0 - 255d (see Access Code 821) | ( 3)        |

-----  
(47)*Shortcode*

|          |          |                      |   |             |
|----------|----------|----------------------|---|-------------|
| N        | 1        | RSP                  | 1,3d  | ( 1)        |
| N        | 5        | Code                 | 512d  | ( 5)        |
| F        | 4        | Control              | see Definition  | ( 4)        |
| N        | 4        | Department           | 0d  | ( 4)        |
| N        | 2        | Scale Number         | 0d  | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record-Typ</b>    | <b>12d = Shortcode</b>  | <b>( 3)</b> |
| N        | 4        | Receipt Number       | 0 - 9999d   | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy  | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm   | ( 4)        |
| N        | 4        | Department Number    | 1 - 9999d   | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d   | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d   | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d  | ( 1)        |
|          |          |                      | <i>0d = booking</i>   |             |
|          |          |                      | <i>1d = cancellation</i>  |             |
| N        | 3        | Shortcode-Nr         | 001 – 100 respectively 230d<br><i>230d only for LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V146, bC V114</i> | ( 3)        |
| N        | 6        | PLU-Number           | 0 – 999999d   | ( 6)        |
| N        | 7        | weight               | 0 – 9999999d<br><i>without decimal point</i>  | ( 7)        |
| N        | 7        | Number or units      | 0 – 9999999d  | ( 7)        |
| C        | 6        | Shortcode-Text       |   | ( 6)        |

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(71)*Value After Tax per booking*

|          |          |                      |  |             |
|----------|----------|----------------------|--|-------------|
| N        | 1        | RSP                  | 1,3d                                     | ( 1)        |
| N        | 5        | Code                 | 512d                                     | ( 5)        |
| F        | 4        | Control              | see Definition                           | ( 4)        |
| N        | 4        | Department           | 0d                                       | ( 4)        |
| N        | 2        | Scale Number         | 0d                                       | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record-Typ</b>    | <b>13d = Value After Tax per booking</b> | <b>( 3)</b> |
| N        | 4        | Receipt Number       | 0 - 9999d                                | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy                             | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm                                  | ( 4)        |
| N        | 4        | Department Number    | 1 - 9999d                                | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d                                  | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d                                  | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d                                   | ( 1)        |
|          |          |                      | <i>0d = booking</i>                      |             |
|          |          |                      | <i>1d = cancellation</i>                 |             |
| N        | 3        | VAT-number           | 0 – 15d                                  | ( 2)        |
| N        | 6        | VAT-value            | 0 – 9999d (99,99%)                       | ( 4)        |

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(48)

|            |          |                    |                             |             |
|------------|----------|--------------------|-----------------------------|-------------|
| <i>End</i> |          |                    |                             |             |
| N          | 1        | RSP                | 1,3d                        | ( 1)        |
| N          | 5        | Code               | 512d                        | ( 5)        |
| F          | 4        | Control            | see Definition              | ( 4)        |
| N          | 4        | Department         | 0d                          | ( 4)        |
| N          | 2        | Scale Number       | 0d                          | ( 2)        |
| <b>N</b>   | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|            |          |                    |                             | -----       |
|            |          |                    |                             | (19)        |

## Access Code: 517

### Function: Grand Total (Cash register)

Full listing of the Grand Total values (whole Cash-Register-Sales) from the single devices

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                   |                      |       |
|---|---|-------------------|----------------------|-------|
| N | 1 | CMD               | 0d                   | ( 1)  |
| N | 5 | Code              | 517d                 | ( 5)  |
| F | 4 | Control           | see Definition       | ( 4)  |
| N | 4 | Department        | 0d                   | ( 4)  |
| N | 2 | Scale Number      | 0d                   | ( 2)  |
|   |   |                   |                      |       |
| N | 2 | from Scale Number | 0 - 99d, 0 = lowest  | ( 2)  |
| N | 2 | to Scale Number   | 0 - 99d, 0 = highest | ( 2)  |
|   |   |                   |                      | ----- |
|   |   |                   |                      | (20)  |

#### Response (Multi-block, for unformatted output)

|                    |          |                    |                             |             |
|--------------------|----------|--------------------|-----------------------------|-------------|
| <i>Grand Total</i> |          |                    |                             |             |
| N                  | 1        | RSP                | 1,3d                        | ( 1)        |
| N                  | 5        | Code               | 517d                        | ( 5)        |
| F                  | 4        | Control            | see Definition              | ( 4)        |
| N                  | 4        | Department         | 1 - 9999d                   | ( 4)        |
| N                  | 2        | Scale Number       | 1 - 64d                     | ( 2)        |
|                    |          |                    |                             |             |
| <b>N</b>           | <b>3</b> | <b>Record Type</b> | <b>0d = Grand Total</b>     | <b>( 3)</b> |
| N                  | 11       | Grand Total        |                             | (11)        |
|                    |          |                    |                             | -----       |
|                    |          |                    |                             | (30)        |
| <i>End</i>         |          |                    |                             |             |
| N                  | 1        | RSP                | 1,3d                        | ( 1)        |
| N                  | 5        | Code               | 517d                        | ( 5)        |
| F                  | 4        | Control            | see Definition              | ( 4)        |
| N                  | 4        | Department         | 0d                          | ( 4)        |
| N                  | 2        | Scale Number       | 0d                          | ( 2)        |
|                    |          |                    |                             |             |
| <b>N</b>           | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|                    |          |                    |                             | -----       |
|                    |          |                    |                             | (19)        |

## Access Code: 518

### Function: Cash Register Takings

Full listing from the Cash-Register-Takings of the different Payment-Methods

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                   |                      |       |
|---|---|-------------------|----------------------|-------|
| N | 1 | CMD               | 0d                   | ( 1)  |
| N | 5 | Code              | 518d                 | ( 5)  |
| F | 4 | Control           | see Definition       | ( 4)  |
| N | 4 | Department        | 0d                   | ( 4)  |
| N | 2 | Scale Number      | 0d                   | ( 2)  |
|   |   |                   |                      |       |
| N | 2 | From Scale Number | 0 - 99d, 0 = lowest  | ( 2)  |
| N | 2 | To Scale Number   | 0 - 99d, 0 = highest | ( 2)  |
|   |   |                   |                      | ----- |
|   |   |                   |                      | (20)  |

#### Response (Multi-block, for unformatted output)

|                       |          |                       |                             |             |
|-----------------------|----------|-----------------------|-----------------------------|-------------|
| <i>Payment Method</i> |          |                       |                             |             |
| N                     | 1        | RSP                   | 1,3d                        | ( 1)        |
| N                     | 5        | Code                  | 518d                        | ( 5)        |
| F                     | 4        | Control               | see Definition              | ( 4)        |
| N                     | 4        | Department            | 0d                          | ( 4)        |
| N                     | 2        | Scale Number          | 0d                          | ( 2)        |
|                       |          |                       |                             |             |
| <b>N</b>              | <b>3</b> | <b>Record Type</b>    | <b>0d = Payment Method</b>  | <b>( 3)</b> |
| N                     | 1        | Payment Method Number | 0 - 9d                      | ( 1)        |
|                       |          |                       |                             |             |
| N                     | 11       | Sales Revenue         | (without decimal point)     | (11)        |
| N                     | 11       | Number of Customers   | (without decimal point)     | (11)        |
| N                     | 11       | Float                 | (without decimal point)     | (11)        |
| N                     | 11       | Safe Deposit Value    | (without decimal point)     | (11)        |
| N                     | 11       | Till Deposit          | (without decimal point)     | (11)        |
| N                     | 11       | Till Payout           | (without decimal point)     | (11)        |
|                       |          |                       |                             | -----       |
|                       |          |                       |                             | (86)        |
| <i>End</i>            |          |                       |                             |             |
| N                     | 1        | RSP                   | 1,3d                        | ( 1)        |
| N                     | 5        | Code                  | 518d                        | ( 5)        |
| F                     | 4        | Control               | see Definition              | ( 4)        |
| N                     | 4        | Department            | 0d                          | ( 4)        |
| N                     | 2        | Scale Number          | 0d                          | ( 2)        |
|                       |          |                       |                             |             |
| <b>N</b>              | <b>3</b> | <b>Record Type</b>    | <b>255d = End Of Report</b> | <b>( 3)</b> |
|                       |          |                       |                             | -----       |
|                       |          |                       |                             | (19)        |

## Access Code: 519

### Function: Cash Register Totalling

Full listing from the Cash Register Totalling of the different devices

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | RSP          | 1,3d           | ( 1)  |
| N | 5 | Code         | 519d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 1 - 9999d      | ( 4)  |
| N | 2 | Scale Number | 1 - 64d        | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response (Multi-block, for unformatted output)

##### Operator Sales

|          |          |   |                                   |             |
|----------|----------|---|-----------------------------------|-------------|
| N        | 1        | RSP   | 1,3d                              | ( 1)        |
| N        | 5        | Code  | 519d                              | ( 5)        |
| F        | 4        | Control   | see Definition                    | ( 4)        |
| N        | 4        | Department  | 0d                                | ( 4)        |
| N        | 2        | Scale Number  | 0d                                | ( 2)        |
|          |          |   |                                   |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>                                    | <b>0d = Operator sales</b>        | <b>( 3)</b> |
| N(C)     | 2        | Operator Number                                       | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 11       | Sales Revenue   | (without decimal point)           | (11)        |
| N        | 11       | Number of Customers                                   |                                   | (11)        |
| N        | 11       | Line cancellation (Amount, without decimal point)     |                                   | (11)        |
| N        | 5        | Number of Line cancellations                          |                                   | ( 5)        |
| N        | 11       | Receipt cancellations (Amount; without decimal point) |                                   | (11)        |
| N        | 5        | Number of Receipt cancellations                       |                                   | ( 5)        |
| N        | 5        | Number of Blank Receipts                              |                                   | ( 5)        |
|          |          |   |                                   | -----       |
|          |          |   |                                   | (80)        |

##### Payment Method

|          |          |                       |                            |             |
|----------|----------|-----------------------|----------------------------|-------------|
| N        | 1        | RSP                   | 1,3d                       | ( 1)        |
| N        | 5        | Code                  | 519d                       | ( 5)        |
| F        | 4        | Control               | see Definition             | ( 4)        |
| N        | 4        | Department            | 1 - 9999d                  | ( 4)        |
| N        | 2        | Scale Number          | 1 - 64d                    | ( 2)        |
|          |          |                       |                            |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>    | <b>1d = Payment Method</b> | <b>( 3)</b> |
| N        | 1        | Payment Method Number | 0 - 9d                     | ( 1)        |
|          |          |                       |                            |             |
| N        | 11       | Sales Revenue         | (without decimal point)    | (11)        |
| N        | 11       | Number of Customers   |                            | (11)        |
| N        | 11       | Float                 | (without decimal point)    | (11)        |
| N        | 11       | Safe Deposit Value    | (without decimal point)    | (11)        |
| N        | 11       | Till deposit          | (without decimal point)    | (11)        |
| N        | 11       | Till payout           | (without decimal point)    | (11)        |
| N        | 11       | Balance               | (without decimal point)    | (11)        |
|          |          |                       |                            | -----       |
|          |          |                       |                            | (97)        |

*Mark-up / Discount*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 519d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                           |                                |             |
|----------|----------|---------------------------|--------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>        | <b>2d = Mark-up / Discount</b> | <b>( 3)</b> |
| N        | 1        | Mark-up / Discount number | 0 - 9d                         | ( 1)        |
| N        | 11[2]    | Mark-up / Discount sales  | (without decimal point)        | (22)        |
| N        | 11[2]    | Number of Entries         |                                | (22)        |

-----  
(64)*Sales category*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 519d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                       |                            |             |
|----------|----------|-----------------------|----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>    | <b>3d = Sales category</b> | <b>( 3)</b> |
| N        | 1        | Sales Category Number | 0 - 9d                     | ( 1)        |
| N        | 11       | Sales Revenue         | (without decimal point)    | (11)        |
| N        | 11       | Number of Receipts    |                            | (11)        |

-----  
(42)*VAT*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 519d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                    |                         |             |
|----------|----------|--------------------|-------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>4d = VAT</b>         | <b>( 3)</b> |
| N        | 2        | VAT Number         | 0 - 15d                 | ( 2)        |
| N        | 11       | VAT Sales          | (without decimal point) | (11)        |

-----  
(32)*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 519d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)



## Access Code: 520

### Function: Cash Register Report

Full listing from the Cash Register Report of the different devices

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE01 LE02 LE03 LE04 LE05 LE06 LE07 LE08 LE09 LE10 LE11 LE12 LE13 LE14 LE15 LE16 LE17 LE18 LE19 LE20 LE21 LE22 LE23 LE24 LE25 LE26 LE27 LE28 LE29 LE30 LE31 LE32 LE33 LE34 LE35 LE36 LE37 LE38 LE39 LE40 LE41 LE42 LE43 LE44 LE45 LE46 LE47 LE48 LE49 LE50 LE51 LE52 LE53 LE54 LE55 LE56 LE57 LE58 LE59 LE60 LE61 LE62 LE63 LE64 LE65 LE66 LE67 LE68 LE69 LE70 LE71 LE72 LE73 LE74 LE75 LE76 LE77 LE78 LE79 LE80 LE81 LE82 LE83 LE84 LE85 LE86 LE87 LE88 LE89 LE90 LE91 LE92 LE93 LE94 LE95 LE96 LE97 LE98 LE99 LF01 LF02 LF03

#### Command

|   |   |                    |                                  |      |
|---|---|--------------------|----------------------------------|------|
| N | 1 | RSP                | 1,3d                             | ( 1) |
| N | 5 | Code               | 520d                             | ( 5) |
| F | 4 | Control            | see Definition                   | ( 4) |
| N | 4 | Department         | 0d                               | ( 4) |
| N | 2 | Scale Number       | 0d                               | ( 2) |
| N | 2 | From Scale Number  | 0 - 99d, 0 = lowest              | ( 2) |
| N | 2 | To Scale Number    | 0 - 99d, 0 = highest             | ( 2) |
| N | 1 | Short-/Long Report | 0 - 2d                           | ( 1) |
|   |   |                    | 0: short report (summary)        |      |
|   |   |                    | 1: long report (detailed)        |      |
|   |   |                    | 2: totals short (Short report 2) |      |

-----  
(21)

#### Response (Multi-block, for unformatted output)

##### Operator Sales

|          |          |   |                                   |             |
|----------|----------|---|-----------------------------------|-------------|
| N        | 1        | RSP   | 1,3d                              | ( 1)        |
| N        | 5        | Code  | 520d                              | ( 5)        |
| F        | 4        | Control   | see Definition                    | ( 4)        |
| N        | 4        | Department  | 0d                                | ( 4)        |
| N        | 2        | Scale Number  | 0d                                | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>                                    | <b>0d = Operator sales</b>        | <b>( 3)</b> |
| N(C)     | 2        | Operator Number                                       | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 11       | Sales Revenue   | (without decimal point)           | (11)        |
| N        | 11       | Number of Customers                                   |                                   | (11)        |
| N        | 11       | Line cancellation (Amount, without decimal point)     |                                   | (11)        |
| N        | 5        | Number of Line cancellations                          |                                   | ( 5)        |
| N        | 11       | Receipt cancellations (Amount; without decimal point) |                                   | (11)        |
| N        | 5        | Number of Receipt cancellations                       |                                   | ( 5)        |
| N        | 5        | Number of Blank Receipts                              |                                   | ( 5)        |

-----  
(80)

##### Payment Method

|          |          |                       |                            |             |
|----------|----------|-----------------------|----------------------------|-------------|
| N        | 1        | RSP                   | 1,3d                       | ( 1)        |
| N        | 5        | Code                  | 520d                       | ( 5)        |
| F        | 4        | Control               | see Definition             | ( 4)        |
| N        | 4        | Department            | 1 - 9999d                  | ( 4)        |
| N        | 2        | Scale Number          | 1 - 64d                    | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>    | <b>1d = Payment Method</b> | <b>( 3)</b> |
| N        | 1        | Payment Method Number | 0 - 9d                     | ( 1)        |
| N        | 11       | Sales Revenue         | (without decimal point)    | (11)        |
| N        | 11       | Number of Customers   |                            | (11)        |
| N        | 11       | Float                 | (without decimal point)    | (11)        |
| N        | 11       | Safe Deposit Value    | (without decimal point)    | (11)        |
| N        | 11       | Till deposit          | (without decimal point)    | (11)        |
| N        | 11       | Till payout           | (without decimal point)    | (11)        |
| N        | 11       | Balance               | (without decimal point)    | (11)        |

-----  
(97)

*Mark-up / Discount*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 520d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                           |                                |             |
|----------|----------|---------------------------|--------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>        | <b>2d = Mark-up / Discount</b> | <b>( 3)</b> |
| N        | 1        | Mark-up / Discount number | 0 - 9d                         | ( 1)        |
| N        | 11[2]    | Mark-up / Discount sales  | (without decimal point)        | (22)        |
| N        | 11[2]    | Number of Entries         |                                | (22)        |

-----  
(64)*Sales category*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 520d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                       |                            |             |
|----------|----------|-----------------------|----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b>    | <b>3d = Sales category</b> | <b>( 3)</b> |
| N        | 1        | Sales Category Number | 0 - 9d                     | ( 1)        |
| N        | 11       | Sales Revenue         | (without decimal point)    | (11)        |
| N        | 11       | Number of Receipts    |                            | (11)        |

-----  
(42)*VAT*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 520d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 1 - 9999d      | ( 4) |
| N | 2 | Scale Number | 1 - 64d        | ( 2) |

|          |          |                    |                         |             |
|----------|----------|--------------------|-------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>4d = VAT</b>         | <b>( 3)</b> |
| N        | 2        | VAT Number         | 0 - 15d                 | ( 2)        |
| N        | 11       | VAT Sales          | (without decimal point) | (11)        |

-----  
(32)*End*

|   |   |              |                |      |
|---|---|--------------|----------------|------|
| N | 1 | RSP          | 1,3d           | ( 1) |
| N | 5 | Code         | 520d           | ( 5) |
| F | 4 | Control      | see Definition | ( 4) |
| N | 4 | Department   | 0d             | ( 4) |
| N | 2 | Scale Number | 0d             | ( 2) |

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|----------|----------|--------------------|-----------------------------|-------------|

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(19)

## Access Code: 521

### Function: Orders (Cash-Register L2)

Order Report sorted according to PLU

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | CMD          | 0d             | ( 1)  |
| N | 5 | Code         | 521d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 0d             | ( 4)  |
| N | 2 | Scale Number | 0d             | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response

|          |          |                        |                         |             |
|----------|----------|------------------------|-------------------------|-------------|
| N        | 1        | RSP                    | 1,3d                    | ( 1)        |
| N        | 5        | Code                   | 521d                    | ( 5)        |
| F        | 4        | Control                | see Definition          | ( 4)        |
| N        | 4        | Department             | 0d                      | ( 4)        |
| N        | 2        | Scale Number           | 0d                      | ( 2)        |
|          |          |                        |                         | -----       |
| <b>N</b> | <b>3</b> | <b>Record Type</b>     | <b>0d = Article</b>     | <b>( 3)</b> |
| N        | 4        | PLU Department Number  | 1 - 9999d               | ( 4)        |
| N        | 6        | PLU Number             | 1 - 999999d             | ( 6)        |
| C        | 20       | PLU Text               | ASCII characters        | (20)        |
| N        | 11       | Weight/ Quantity sales | (g, pieces)             | (11)        |
| F        | 4        | Article Flags          | 0: Weigh.; 1: Non-weigh | ( 4)        |
| N        | 8        | Delivery Time and Day  | (hh-dd-mm-yy)           | ( 8)        |
| N        | 5        | Delivery ID            | 0 - 99999d              | ( 5)        |
|          |          |                        |                         | -----       |
|          |          |                        |                         | (77)        |

*End*

|          |          |                    |                             |             |
|----------|----------|--------------------|-----------------------------|-------------|
| N        | 1        | RSP                | 1,3d                        | ( 1)        |
| N        | 5        | Code               | 521d                        | ( 5)        |
| F        | 4        | Control            | see Definition              | ( 4)        |
| N        | 4        | Department         | 0d                          | ( 4)        |
| N        | 2        | Scale Number       | 0d                          | ( 2)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>255d = End Of Report</b> | <b>( 3)</b> |
|          |          |                    |                             | -----       |
|          |          |                    |                             | (19)        |

## Access Code: 522

### Function: Checkout-Slips (Cash-Register L2 and MIRA)

#### Listing of Checkout-Slips

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | CMD          | 0d             | ( 1)  |
| N | 5 | Code         | 522d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 0d             | ( 4)  |
| N | 2 | Scale Number | 0d             | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response

|            |          |                      |                             |                          |
|------------|----------|----------------------|-----------------------------|--------------------------|
| N          | 1        | RSP                  | 1,3d                        | ( 1)                     |
| N          | 5        | Code                 | 522d                        | ( 5)                     |
| F          | 4        | Control              | see Definition              | ( 4)                     |
| N          | 4        | Department           | 0d                          | ( 4)                     |
| N          | 2        | Scale Number         | 0d                          | ( 2)                     |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>0d = see Access Code</b> | <b>( 3)</b>              |
| N          | 4        | Customer number      | 0 - 9999d                   | ( 4)                     |
| N          | 3        | Position Number      | 0 - 999d                    | ( 4)                     |
| N          | 1        | Booking/Cancellation | 0 - 1d                      | ( 1)                     |
|            |          |                      |                             | <i>0d = booking</i>      |
|            |          |                      |                             | <i>1d = cancellation</i> |
| N          | 4        | Receipt Number       | 0 - 9999d                   | ( 4)                     |
| N          | 2[3]     | Date                 | dd / mm / yy                | ( 6)                     |
| N          | 2[2]     | Time                 | hh / mm                     | ( 4)                     |
| N          | 2        | Operator Number      | 1 - 99d                     | ( 2)                     |
| N          | 11       | Sales Revenue        | (without decimal point)     | (11)                     |
| N          | 11       | Number of Entries    |                             | (11)                     |
|            |          |                      |                             | -----                    |
|            |          |                      |                             | (66)                     |
| <i>End</i> |          |                      |                             |                          |
| N          | 1        | RSP                  | 1,3d                        | ( 1)                     |
| N          | 5        | Code                 | 522d                        | ( 5)                     |
| F          | 4        | Control              | see Definition              | ( 4)                     |
| N          | 4        | Department           | 0d                          | ( 4)                     |
| N          | 2        | Scale Number         | 0d                          | ( 2)                     |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>255d = End Of Report</b> | <b>( 3)</b>              |
|            |          |                      |                             | -----                    |
|            |          |                      |                             | (19)                     |

## Access Code: 523

### Function: Collection-Slips (Cash-Register L2 and MIRA)

#### Listing of Collection-Slips

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |                |       |
|---|---|--------------|----------------|-------|
| N | 1 | CMD          | 0d             | ( 1)  |
| N | 5 | Code         | 523d           | ( 5)  |
| F | 4 | Control      | see Definition | ( 4)  |
| N | 4 | Department   | 0d             | ( 4)  |
| N | 2 | Scale Number | 0d             | ( 2)  |
|   |   |              |                | ----- |
|   |   |              |                | (16)  |

#### Response

|            |          |                      |                             |                          |
|------------|----------|----------------------|-----------------------------|--------------------------|
| N          | 1        | RSP                  | 1,3d                        | ( 1)                     |
| N          | 5        | Code                 | 523d                        | ( 5)                     |
| F          | 4        | Control              | see Definition              | ( 4)                     |
| N          | 4        | Department           | 0d                          | ( 4)                     |
| N          | 2        | Scale Number         | 0d                          | ( 2)                     |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>0d = see Access Code</b> | <b>( 3)</b>              |
| N          | 4        | Customer number      | 0 - 9999d                   | ( 4)                     |
| N          | 3        | Position Number      | 0 - 999d                    | ( 4)                     |
| N          | 1        | Booking/Cancellation | 0 - 1d                      | ( 1)                     |
|            |          |                      |                             | <i>0d = booking</i>      |
|            |          |                      |                             | <i>1d = cancellation</i> |
| N          | 4        | Receipt Number       | 0 - 9999d                   | ( 4)                     |
| N          | 2[3]     | Date                 | dd / mm / yy                | ( 6)                     |
| N          | 2[2]     | Time                 | hh / mm                     | ( 4)                     |
| N          | 2        | Operator Number      | 1 - 99d                     | ( 2)                     |
| N          | 11       | Sales Revenue        | (without decimal point)     | (11)                     |
| N          | 11       | Number of Entries    |                             | (11)                     |
|            |          |                      |                             | -----                    |
|            |          |                      |                             | (66)                     |
| <i>End</i> |          |                      |                             |                          |
| N          | 1        | RSP                  | 1,3d                        | ( 1)                     |
| N          | 5        | Code                 | 523d                        | ( 5)                     |
| F          | 4        | Control              | see Definition              | ( 4)                     |
| N          | 4        | Department           | 0d                          | ( 4)                     |
| N          | 2        | Scale Number         | 0d                          | ( 2)                     |
| <b>N</b>   | <b>3</b> | <b>Record Type</b>   | <b>255d = End Of Report</b> | <b>( 3)</b>              |
|            |          |                      |                             | -----                    |
|            |          |                      |                             | (19)                     |

## Access Code: 524

### Function: Operator Time Keeping

Listing of operator sign-ons, sign-offs and short sign-offs within a given time period

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03 Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

|   |      |              |                |       |
|---|------|--------------|----------------|-------|
| N | 1    | CMD          | 0d             | ( 1)  |
| N | 5    | Code         | 524d           | ( 5)  |
| F | 4    | Control      | see Definition | ( 4)  |
| N | 4    | Department   | 0 - 9999d      | ( 4)  |
| N | 2    | Scale Number | 0 - 64d        | ( 2)  |
| N | 2[3] | From Date    | dd / mm / yy   | ( 6)  |
| N | 2[2] | From Time    | hh / mm        | ( 4)  |
| N | 2[3] | To Date      | dd / mm / yy   | ( 6)  |
| N | 2[2] | To Time      | hh / mm        | ( 4)  |
|   |      |              |                | ----- |
|   |      |              |                | (36)  |

#### Response 524

|   |      |                       |   |                              |
|---|------|-----------------------|---|------------------------------|
| N | 1    | RSP                   | 1,3d  | ( 1)                         |
| N | 5    | Code                  | 524d  | ( 5)                         |
| F | 4    | Control               | see Definition                                | ( 4)                         |
| N | 4    | Department            | 0 - 9999d                                     | ( 4)                         |
| N | 2    | Scale Number          | 0 - 64d                                       | ( 2)                         |
| N | 3    | <b>Record Type</b>    | <b>0d = Sign-on, sign-off, short sign-off</b> | <b>( 3)</b>                  |
| N | 2[3] | Date                  | dd / mm / yy                                  | ( 6)                         |
| N | 2[2] | Time                  | hh / mm                                       | ( 4)                         |
| N | 4    | Department Number     | 1 - 9999d                                     | ( 4)                         |
| N | 2    | Device Number         | 1 - 99d                                       | ( 2)                         |
| N | 2    | Operator Number       | 1 - 99d                                       | ( 2)                         |
| N | 2    | Roving Operator Group | 1 - 15d                                       | ( 2)                         |
| N | 2    | Operator Key Number   | 1 - 99d                                       | ( 2)                         |
| N | 2    | Status                | 0 - 2d  | ( 2)                         |
|   |      |                       |   | <i>0: signed-off</i>         |
|   |      |                       |   | <i>1: signed-on</i>          |
|   |      |                       |   | <i>2: shortly signed-off</i> |
|   |      |                       |   | -----                        |
|   |      |                       |   | (43)                         |

End

|   |   |                    |                             |             |
|---|---|--------------------|-----------------------------|-------------|
| N | 1 | RSP                | 1,3d                        | ( 1)        |
| N | 5 | Code               | 524d                        | ( 5)        |
| F | 4 | Control            | see Definition              | ( 4)        |
| N | 4 | Department         | 0d                          | ( 4)        |
| N | 2 | Scale Number       | 0d                          | ( 2)        |
| N | 3 | <b>Record Type</b> | <b>255d = End of Report</b> | <b>( 3)</b> |
|   |   |                    |                             | -----       |
|   |   |                    |                             | (19)        |

## Access Code: 530

### Function: Sales Report - Accounts

Account-Sales Report - sorted according to PLU

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM89 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|       |    |                   |   |      |
|-------|----|-------------------|---|------|
| N     | 1  | CMD               | 0d  | ( 1) |
| N     | 5  | Code              | 530d  | ( 5) |
| F     | 4  | Control           | see Definition  | ( 4) |
| N     | 4  | Department        | 0 - 9999d   | ( 4) |
| N     | 2  | Scale Number      | 0d  | ( 2) |
| C     | 20 | Account Number.   | ASCII character (alphanumeric)                                | (20) |
| N     | 1  | Short/Long Report | 0 - 1d<br><i>0d = short report</i><br><i>1d = long report</i> | ( 1) |
| N     | 1  | PLU/EAN           | 0d (PLU)  | (1)  |
| N     | 6  | From PLU Number   | 0 - 999999d<br><i>0 = lowest PLU number</i>                   | (6)  |
| C     | 13 | From EAN Number   | ASCII numbers<br><i>13x0 = lowest EAN number</i>              | (13) |
| N     |    | To PLU Number     | 0 - 999999d<br><i>0 = highest PLU number</i>                  | ( 4) |
| C     | 13 | To EAN Number     | ASCII numbers<br><i>13x0 = highest EAN number</i>             | (13) |
| ----- |    |                   |   | (74) |

#### Response (Multi-block, for unformatted output)

|                |    |                        |                         |             |
|----------------|----|------------------------|-------------------------|-------------|
| N              | 1  | RSP                    | 1,3d                    | ( 1)        |
| N              | 5  | Code                   | 530d                    | ( 5)        |
| F              | 4  | Control                | see Definition          | ( 4)        |
| N              | 4  | Department             | 0 - 9999d               | ( 4)        |
| N              | 2  | Scale Number           | 0d                      | ( 2)        |
| C              | 1  | <b>Record Type</b>     | <b>0d = Department</b>  | <b>( 1)</b> |
| N              | 4  | Department             | 1 - 9999d               | ( 4)        |
| C              | 20 | Department Description | ASCII character         | (20)        |
| -----          |    |                        |                         | (41)        |
| <i>Article</i> |    |                        |                         |             |
| N              | 1  | RSP                    | 1,3d                    | ( 1)        |
| N              | 5  | Code                   | 530d                    | ( 5)        |
| F              | 4  | Control                | see Definition          | ( 4)        |
| N              | 4  | Department             | 0 - 9999d               | ( 4)        |
| N              | 2  | Scale Number           | 0d                      | ( 2)        |
| C              | 1  | <b>Record Type</b>     | <b>1d = Article</b>     | <b>( 1)</b> |
| N              | 6  | PLU Number             | 1 - 999999d             | ( 6)        |
| C              | 13 | EAN Number             | ASCII numbers           | (13)        |
| C              | 20 | Article description    | ASCII character         | (20)        |
| N              | 11 | Sales Revenue          | (without decimal point) | (11)        |
| N              | 11 | Sales in Weight        | (g)                     | (11)        |
| N              | 6  | Number of Entries      | ( 6)                    |             |
| N              | 11 | Margin                 | (without decimal point) | (11)        |
| -----          |    |                        |                         | (95)        |

*Specific Values (only for Long report)*

|          |                    |                             |                         |             |
|----------|--------------------|-----------------------------|-------------------------|-------------|
| N        | 1                  | RSP                         | 1,3d                    | ( 1)        |
| N        | 5                  | Code                        | 530d                    | ( 5)        |
| F        | 4                  | Control                     | see Definition          | ( 4)        |
| N        | 4                  | Department                  | 0 - 9999d               | ( 4)        |
| N        | 2                  | Scale Number                | 0d                      | ( 2)        |
| <b>N</b> | <b>Record Type</b> | <b>2d = Specific Values</b> |                         | <b>( 1)</b> |
| N        | 7                  | Average Selling Price       | +/- 0 - 999999d         | ( 7)        |
| N        | 6                  | Sales/Entries               | (without decimal point) | ( 4)        |
| N        | 11                 | Margin/Entries              | (without decimal point) | (11)        |
|          |                    |                             |                         | -----       |
|          |                    |                             |                         | (39)        |



## Access Code: 532

### Function: Orders - MIRA Cash Register

Order report according to Date/Time - ID – Department No. - PLU

Fehler: Verweisquelle konnte nicht gefunden werden  
 LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM89 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |      |                  |                   |       |
|---|------|------------------|-------------------|-------|
| N | 1    | CMD              | 0d                | ( 1)  |
| N | 5    | Code             | 532d              | ( 5)  |
| F | 4    | Control          | see Definition    | ( 4)  |
| N | 4    | Department       | 0d                | ( 4)  |
| N | 2    | Scale Number     | 0d                | ( 2)  |
|   |      |                  |                   |       |
| N | 2[4] | From Date/Time   | hh / dd / mm / yy | ( 8)  |
| N | 2[4] | To Date/Time     | hh / dd / mm / yy | ( 8)  |
| N | 5    | From Delivery ID | 0 – 99999d        | ( 5)  |
| N | 5    | To Delivery ID   | 0 – 99999d        | ( 5)  |
|   |      |                  |                   | ----- |
|   |      |                  |                   | (42)  |

#### Response (Multi-block, for unformatted output)

|          |          |                             |                        |             |
|----------|----------|-----------------------------|------------------------|-------------|
| N        | 1        | RSP                         | 1,3d                   | ( 1)        |
| N        | 5        | Code                        | 532d                   | ( 5)        |
| F        | 4        | Control                     | see Definition         | ( 4)        |
| N        | 4        | Department                  | 0d                     | ( 4)        |
| N        | 2        | Scale Number                | 0d                     | ( 2)        |
|          |          |                             |                        |             |
| <b>C</b> | <b>3</b> | <b>Record Type</b>          | <b>0d = Article</b>    | <b>( 3)</b> |
| N        | 2[4]     | Date/Time                   | hh / dd / mm / yy      | ( 8)        |
| N        | 5        | From Delivery ID            | 1 – 99999d             | ( 5)        |
| N        | 4        | Department Number           | 1 – 9999d              | ( 4)        |
| N        | 6        | PLU Number                  | 1 – 999999d            | ( 6)        |
|          |          |                             |                        |             |
| C        | 20       | TLU                         | ASCII character        | (20)        |
| N        | 11       | Amount                      | +/- 0 – 9999999d       | (11)        |
| N        | 5        | Weight/Quantity             | 0 – 99999d (g, pieces) | ( 5)        |
|          |          |                             |                        |             |
| F        | 4        | Weigh / Non-Weigh Flag ( 4) |                        |             |

| Bit  | Meaning                | Value                     | Remark |
|------|------------------------|---------------------------|--------|
| 0    | Weigh / Non-Weigh PLU. | 0 = Weigh / 1 = Non-weigh |        |
| 1-15 | Don't care             |                           |        |

|            |          |                    |                             |             |
|------------|----------|--------------------|-----------------------------|-------------|
|            |          |                    |                             | -----       |
|            |          |                    |                             | (82)        |
| <i>End</i> |          |                    |                             |             |
| N          | 1        | RSP                | 1,3d                        | ( 1)        |
| N          | 5        | Code               | 532                         | ( 5)        |
| F          | 4        | Control            | see Definition              | ( 4)        |
| N          | 4        | Department         | 0d                          | ( 4)        |
| N          | 2        | Scale Number       | 0d                          | ( 2)        |
|            |          |                    |                             |             |
| <b>N</b>   | <b>3</b> | <b>Record Type</b> | <b>255d = End of Report</b> | <b>( 3)</b> |
|            |          |                    |                             | -----       |
|            |          |                    |                             | (19)        |

## Access Code: 533

### Function: Delivery Note Data - MIRA Cash Register

Listing of all delivery notes for a range of given customer numbers

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |    |                      |                     |       |
|---|----|----------------------|---------------------|-------|
| N | 1  | CMD                  | 0d                  | ( 1)  |
| N | 5  | Code                 | 533d                | ( 5)  |
| F | 4  | Control              | see Definition      | ( 4)  |
| N | 4  | Department           | 0 - 9999d           | ( 4)  |
| N | 2  | Scale Number         | 0 - 64d             | ( 2)  |
|   |    |                      |                     |       |
| N | 3  | Selection Control    | 000 – 001d          | ( 1)  |
|   |    |                      | 000 = all closed    |       |
|   |    |                      | 001 = all cancelled |       |
| C | 13 | From Customer Number | ASCII numbers       | (13)  |
| C | 13 | To Customer Number   | ASCII numbers       | (13)  |
|   |    |                      |                     | ----- |
|   |    |                      |                     | (43)  |

#### Response (Multi-block, for unformatted output)

|                |          |                      |                     |             |
|----------------|----------|----------------------|---------------------|-------------|
| <i>Booking</i> |          |                      |                     |             |
| N              | 1        | RSP                  | 1,3d                | ( 1)        |
| N              | 5        | Code                 | 533d                | ( 5)        |
| F              | 4        | Control              | see Definition      | ( 4)        |
| N              | 4        | Department           | 0 - 9999d           | ( 4)        |
| N              | 2        | Scale Number         | 0 - 64d             | ( 2)        |
|                |          |                      |                     |             |
| <b>C</b>       | <b>3</b> | <b>Record Type</b>   | <b>0d = Booking</b> | <b>( 3)</b> |
| C              | 13       | Customer Number      | ASCII Numbers       | (13)        |
| N              | 4        | Receipt Number       | 0 - 9999d           | ( 4)        |
| N              | 3        | Position Number      | 0 – 999d            | ( 3)        |
|                |          |                      |                     |             |
| N              | 2[3]     | Date                 | dd / mm / yy        | ( 6)        |
| N              | 2[2]     | Time                 | hh / mm             | ( 4)        |
|                |          |                      |                     |             |
| N              | 3        | Selection Control    | 002 - 003d          | ( 3)        |
|                |          |                      | 002 = closed        |             |
|                |          |                      | 003 = cancelled     |             |
|                |          |                      |                     |             |
| N              | 4        | Department           | 0 - 9999d           | ( 4)        |
| N              | 2        | Scale Number         | 0 - 64d             | ( 2)        |
| N              | 2        | Operator Number      | 1 - 99d             | ( 2)        |
| N              | 1        | Booking/Cancellation | 0 – 1d              | ( 1)        |
|                |          |                      | 0d = booking        |             |
|                |          |                      | 1d = cancellation   |             |
|                |          |                      |                     |             |
| N              | 1        | Booking type         | 0 - 4d              | ( 1)        |
|                |          |                      | 0 = weigh PLU       |             |
|                |          |                      | 1 = miscellaneous   |             |
|                |          |                      | 2 = non-weigh PLU   |             |
|                |          |                      | 3 = hand +          |             |
|                |          |                      | 4 = hand -          |             |

|   |    |                             |  |      |
|---|----|-----------------------------|--|------|
| N | 1  | Price Type                  | 0 - 9d<br>0 = <i>selling Price 1</i><br>1 = <i>selling Price 2</i><br>2 = <i>staggered block price 1</i><br>3 = <i>staggered block price 2</i><br>4 = <i>open Price 1</i><br>5 = <i>open Price 2</i><br>6 = <i>hand + 1</i><br>7 = <i>hand + 2</i><br>8 = <i>special Offer Price 1</i><br>9 = <i>special Offer Price 2</i> | ( 1) |
| N | 6  | PLU No. / Article Group No. | 1 - 999999d / 1 - 9999d  | ( 6) |
| C | 40 | Article description         | ASCII character  | (40) |
| N | 11 | Weight/Quantity             | 0 - 99999999999 (g, pieces)  | (11) |
| N | 11 | Tare                        | 0 - 99999999999 (g)  | (11) |
| N | 8  | Price                       | +/- 0 - 999999(9)d   | ( 8) |
| N | 11 | Amount                      | (without decimal point)  | (11) |
| N | 11 | Margin                      | (without decimal point)  | (11) |
| N | 2  | VAT Number                  | 0 - 15d  | ( 2) |
| N | 1  | Mark-up / Discount Number   | 0 - 9d   | ( 1) |
| N | 5  | Percentage                  | +/- 0 - 9999d  | ( 5) |
| N | 11 | Mark-up / Discount Amount   | (without decimal point)  | (11) |
| N | 4  | PLU Department Number       | 1 - 9999d  | ( 4) |
| N | 2  | PLU Scale Number            | 1 - 99d  | ( 2) |
| F | 4  | Art. Flags                  |  | ( 4) |

| Bit   | Meaning                        | Value   |
|-------|--------------------------------|---|
| 0     | Weigh-/non-weigh article       | 0 = weigh / 1 = non-weigh   |
| 1     | Enable price overwrite         | 0 = no / 1 = yes  |
| 2     | Special Offer                  | 0 = no / 1 = yes  |
| 3     | Special Offer reserve          | 0 = no / 1 = yes  |
| 4     | Block Article                  | 0 = no / 1 = yes  |
| 5     | Enable discount                | 0 = no / 1 = yes  |
| 6-7   | Don't care                     |   |
| 8-9   | Traffic Light Smiley           | 00 = without<br>01 = green<br>10 = red<br>11 = depending on margin  |
| 10-11 | Product Text                   | 00 = without<br>01 = show<br>10 = print   |
| 12    | Weight type                    | 0 = Weight has been weighed<br>1 = Weight has been manually inputted or scanned in                          |
| 13    | Don't care                     |   |
| 14-15 | Decimal places in weight value | 00 = 3 decimal places (Standard)<br>01 = 2 decimal places<br>10 = 1 decimal place<br>11 = no decimal places |

|   |    |                        |   |      |
|---|----|------------------------|---|------|
| N | 3  | Product Text number    | 1 - 999d<br>0 = <i>no Product Text</i>                      | ( 3) |
| N | 11 | Gratis Amount          | (without decimal point)                                     | (11) |
| N | 11 | Gratis Weight/quantity | (g) / (pieces)  | (11) |
| N | 1  | Sales Red/Yellow/Green |   | ( 1) |
| N | 1  | Tare type              | 0 - 1d<br>0 = <i>tare offset</i><br>1 = <i>tare default</i> | ( 1) |

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(217)

*Receipt Totals*

|          |          |                           |  |             |
|----------|----------|---------------------------|--|-------------|
| N        | 1        | RSP                       | 1,3d   | ( 1)        |
| N        | 5        | Code                      | 533d   | ( 5)        |
| F        | 4        | Control                   | see Definition   | ( 4)        |
| N        | 4        | Department                | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number              | 0 - 64d  | ( 2)        |
| <b>C</b> | <b>3</b> | <b>Record Type</b>        | <b>3d = Receipt totals</b>   | <b>( 3)</b> |
| C        | 13       | From Customer Number      | ASCII Numbers  | (13)        |
| N        | 4        | Receipt Number            | 0 - 9999d  | ( 4)        |
| N        | 3        | Position Number           | 0 – 999d   | ( 3)        |
| N        | 2[3]     | Date                      | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Time                      | hh / mm  | ( 4)        |
| N        | 3        | Selection Control         | 002 - 003d<br><i>002 = closed</i><br><i>003 = cancelled</i>  | ( 3)        |
| N        | 4        | Department                | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number              | 0 - 64d  | ( 2)        |
| N        | 2        | Operator Number           | 1 - 99d  | ( 2)        |
| N        | 1        | Booking/Cancellation      | 0 – 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>  | ( 1)        |
| N        | 11       | Number of Entries         |  | (11)        |
| N        | 11       | Total Weight              | 0 – 99999999999 (g)  | (11)        |
| N        | 11       | Total Amounts             | 0 – 99999999999 (without decimal point)  | (11)        |
| N        | 11       | Margin                    | 0 – 99999999999 (without decimal point)  | (11)        |
| N        | 11       | Paid                      | 0 – 99999999999<br><i>(sum of all Payment Methods without decimal point<br/>in local currency)</i> | (11)        |
| N        | 11       | Change Returned           | 0 – 99999999999 (without decimal point)  | (11)        |
| N        | 1        | Mark-up / Discount Number | 0 - 9d   | ( 1)        |
| N        | 5        | Percentage                | +/- 0 - 9999d  | ( 5)        |
| N        | 11       | Total                     | 0 – 99999999999 (without decimal point)  | (11)        |
| N        | 11       | Mark-up / Discount amount | 0 – 99999999999 (without decimal point)  | (11)        |
|          |          |                           |  | -----       |
|          |          |                           |  | (155)       |

|                       |          |                        |   |             |
|-----------------------|----------|------------------------|---|-------------|
| <i>Payment Method</i> |          |                        |   |             |
| N                     | 1        | RSP                    | 1,3d  | ( 1)        |
| N                     | 5        | Code                   | 533d  | ( 5)        |
| F                     | 4        | Control                | see Definition  | ( 4)        |
| N                     | 4        | Department             | 0 - 9999d   | ( 4)        |
| N                     | 2        | Scale Number           | 0 - 64d   | ( 2)        |
| <b>C</b>              | <b>3</b> | <b>Record Type</b>     | <b>4d = Payment Method</b>  | <b>( 3)</b> |
| C                     | 13       | From Customer Number   | ASCII numbers   | (13)        |
| N                     | 4        | Receipt Number         | 0 - 9999d   | ( 4)        |
| N                     | 3        | Position Number        | 0 – 999d  | ( 3)        |
| N                     | 2[3]     | Date                   | dd / mm / yy  | ( 6)        |
| N                     | 2[2]     | Time                   | hh / mm   | ( 4)        |
| N                     | 3        | Selection Control      | 002 - 003d<br><i>002 = closed</i><br><i>003 = cancelled</i>                                       | ( 3)        |
| N                     | 4        | Department             | 0 - 9999d   | ( 4)        |
| N                     | 2        | Scale Number           | 0 - 64d   | ( 2)        |
| N                     | 2        | Operator Number        | 1 - 99d   | ( 2)        |
| N                     | 1        | Booking/Cancellation   | 0 – 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>   | ( 1)        |
| N                     | 1        | Sales Category Number  | 0 – 9d  | ( 1)        |
| N                     | 1        | Payment Method Number  | 0 - 9d  | ( 1)        |
| N                     | 11       | Amount Paid            | 0 – 99999999999d (without decimal point)  | (11)        |
| C                     | 3        | Payment Method Abbrev. | ASCII character   | ( 3)        |
| N                     | 1        | Decimal Places         | 0 - 3d  | ( 1)        |
| N                     | 1        | Rounding               | 0 - 1d<br><i>0d = Rounding to the nearest 'one'</i><br><i>1d = Rounding to the nearest 'five'</i> | ( 1)        |
| N                     | 11       | Factor                 | 0 – 99999999999d (without decimal point)  | (11)        |
| N                     | 11       | Rate                   | 0 – 99999999999d (without decimal point)  | (11)        |
|                       |          |                        |   | -----       |
| <i>VAT</i>            |          |                        |   | (101)       |
| N                     | 1        | RSP                    | 1,3d  | ( 1)        |
| N                     | 5        | Code                   | 533d  | ( 5)        |
| F                     | 4        | Control                | see Definition  | ( 4)        |
| N                     | 4        | Department             | 0 - 9999d   | ( 4)        |
| N                     | 2        | Scale Number           | 0 - 64d   | ( 2)        |
| <b>C</b>              | <b>3</b> | <b>Record Type</b>     | <b>6d = VAT</b>   | <b>( 3)</b> |
| C                     | 13       | From Customer Number   | ASCII Numbers   | (13)        |
| N                     | 4        | Receipt Number         | 0 - 9999d   | ( 4)        |
| N                     | 3        | Position Number        | 0 – 999d  | ( 3)        |
| N                     | 2[3]     | Date                   | dd / mm / yy  | ( 6)        |
| N                     | 2[2]     | Time                   | hh / mm   | ( 4)        |
| N                     | 3        | Selection Control      | 002 - 003d<br><i>002 = closed</i><br><i>003 = cancelled</i>                                       | ( 3)        |
| N                     | 4        | Department             | 0 - 9999d   | ( 4)        |
| N                     | 2        | Scale Number           | 0 - 64d   | ( 2)        |
| N                     | 2        | Operator Number        | 1 - 99d   | ( 2)        |
| N                     | 1        | Booking/Cancellation   | 0 – 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>   | ( 1)        |
| N                     | 2        | VAT Number             | 0 - 15d   | ( 2)        |
| N                     | 4        | VAT Rate               | 0 - 9999d   | ( 4)        |
| N                     | 11       | VAT Sales              | 0 – 99999999999d (without decimal point)  | (11)        |
| N                     | 11       | VAT Amount             | 0 – 99999999999d (without decimal point)  | (11)        |
|                       |          |                        |   | -----       |
|                       |          |                        |   | (89)        |

|                                    |          |                      |  |             |
|------------------------------------|----------|----------------------|--|-------------|
| <i>Shortcode</i>                   |          |                      |  |             |
| N                                  | 1        | RSP                  | 1,3d   | ( 1)        |
| N                                  | 5        | Code                 | 533d   | ( 5)        |
| F                                  | 4        | Control              | see Definition   | ( 4)        |
| N                                  | 4        | Department           | 0 - 9999d  | ( 4)        |
| N                                  | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| <b>C</b>                           | <b>3</b> | <b>Record Type</b>   | <b>12d = Shortcode</b>   | <b>( 3)</b> |
| C                                  | 13       | From Customer Number | ASCII Numbers  | (13)        |
| N                                  | 4        | Receipt Number       | 0 - 9999d  | ( 4)        |
| N                                  | 3        | Position Number      | 0 – 999d   | ( 3)        |
| N                                  | 2[3]     | Date                 | dd / mm / yy   | ( 6)        |
| N                                  | 2[2]     | Time                 | hh / mm  | ( 4)        |
| N                                  | 3        | Selection Control    | 002 - 003d<br><i>002 = closed</i><br><i>003 = cancelled</i>  | ( 3)        |
| N                                  | 4        | Department           | 0 - 9999d  | ( 4)        |
| N                                  | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| N                                  | 2        | Operator Number      | 1 - 99d  | ( 2)        |
| N                                  | 1        | Booking/Cancellation | 0 – 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>  | ( 1)        |
| N                                  | 3        | Shortcode-Nr         | 001 – 100 respectively 230d<br><i>230d only for LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V146, bC from V114</i> | ( 3)        |
| N                                  | 6        | PLU-Number           | 0 – 999999d  | ( 6)        |
| N                                  | 7        | weight               | 0 – 9999999d<br><i>without decimal point</i>   | ( 7)        |
| N                                  | 7        | Number or units      | 0 – 9999999d   | ( 7)        |
| C                                  | 6        | Shortcode-Text       |  | ( 6)        |
|                                    |          |                      |  | -----       |
| <i>Value After Tax per booking</i> |          |                      |  | (90)        |
| N                                  | 1        | RSP                  | 1,3d   | ( 1)        |
| N                                  | 5        | Code                 | 533d   | ( 5)        |
| F                                  | 4        | Control              | see Definition   | ( 4)        |
| N                                  | 4        | Department           | 0 - 9999d  | ( 4)        |
| N                                  | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| <b>N</b>                           | <b>3</b> | <b>Record-Typ</b>    | <b>13d = Value After Tax per booking</b>   | <b>( 3)</b> |
| C                                  | 13       | From Customer Number | ASCII Numbers  | (13)        |
| N                                  | 4        | Receipt Number       | 0 - 9999d  | ( 4)        |
| N                                  | 3        | Position Number      | 0 – 999d   | ( 3)        |
| N                                  | 2[3]     | Date                 | dd / mm / yy   | ( 6)        |
| N                                  | 2[2]     | Time                 | hh / mm  | ( 4)        |
| N                                  | 3        | Selection Control    | 002 - 003d<br><i>002 = closed</i><br><i>003 = cancelled</i>  | ( 3)        |
| N                                  | 4        | Department           | 0 - 9999d  | ( 4)        |
| N                                  | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| N                                  | 2        | Operator Number      | 1 - 99d  | ( 2)        |
| N                                  | 1        | Booking/Cancellation | 0 – 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>  | ( 1)        |
| N                                  | 3        | VAT-Number           | 0 – 15d  | ( 2)        |
| N                                  | 6        | VAT-Value            | 0 – 9999d (99,99%)   | ( 4)        |
|                                    |          |                      |  | -----       |
| <i>End</i>                         |          |                      |  | (67)        |
| N                                  | 1        | RSP                  | 1,3d   | ( 1)        |
| N                                  | 5        | Code                 | 533d   | ( 5)        |
| F                                  | 4        | Control              | see Definition   | ( 4)        |
| N                                  | 4        | Department           | 0 - 9999d  | ( 4)        |
| N                                  | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| <b>C</b>                           | <b>3</b> | <b>Record Type</b>   | <b>255d = End Of Report</b>  | <b>( 3)</b> |

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(19)

**Access Code: 596****Function: Deletion of Cash Register Sales – With Deletion Date**

Cash Register Sales are deleted and the date of deletion is saved (contrary to Acc. Code 252)

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

**Command**

|   |   |                   |                                    |      |
|---|---|-------------------|------------------------------------|------|
| N | 1 | CMD               | 0d                                 | ( 1) |
| N | 5 | Code              | 596d                               | ( 5) |
| F | 4 | Control           | See definition                     | ( 4) |
|   |   |                   | 0000 ⇒ sales level 1               |      |
|   |   |                   | 0100 ⇒ sales level 2               |      |
|   |   |                   | 0200 ⇒ sales level 3 (only for L2) |      |
|   |   |                   | 0300 ⇒ sales level 4 (only for L2) |      |
|   |   |                   | 0000 ⇒ cash register sales         |      |
|   |   |                   | 0400 ⇒ closing sales revenue       |      |
| N | 4 | Department        | 0d                                 | ( 4) |
| N | 2 | Scale Number      | 0d                                 | ( 2) |
| N | 2 | from Scale Number | 0 - 64d                            | ( 2) |
|   |   |                   | 0 = lowest scale number            |      |
| N | 2 | to Scale Number   | 0 - 64d                            | ( 2) |
|   |   |                   | 0 = highest scale number           |      |
|   |   |                   | -----                              |      |
|   |   |                   |                                    | (20) |

*Note: Deletion date and deletion time are stored with the current scale data*

*(compare Access Code 252 – there are deletion date and deletion time not stored)*

**Response**

|   |   |              |                   |      |
|---|---|--------------|-------------------|------|
| N | 1 | RSP          | 1,3d              | ( 1) |
| N | 5 | Code         | 596d              | ( 5) |
| F | 4 | Control      | 0d                | ( 4) |
|   |   |              | 0: data found     |      |
|   |   |              | 1: data not found |      |
| N | 4 | Department   | 0d                | ( 4) |
| N | 2 | Scale Number | 0d                | ( 2) |
|   |   |              | -----             |      |
|   |   |              |                   | (16) |



**Access Code: 598****Function: Deletion of Article Based Sales – With Deletion Date**

Article Based Sales are deleted and the date of deletion is saved (contrary to Acc. Code 236)

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

**Command**

|   |   |              |   |               |
|---|---|--------------|---|---------------|
| N | 1 | CMD          | 0d  | ( 1)          |
| N | 5 | Code         | 598d  | ( 5)          |
| F | 4 | Control      | see definition  | ( 4)          |
|   |   |              | 0000 ⇒ sales level 1  |               |
|   |   |              | 0100 ⇒ sales level  |               |
|   |   |              | 0200 ⇒ sales level 3  | (only for L2) |
|   |   |              | 0300 ⇒ sales level 4  | (only for L2) |
|   |   |              | 0000 = service-counter sales  |               |
|   |   |              | 0400 = self-service sales   |               |
|   |   |              | 0800 = pre-pack sales   |               |
|   |   |              | 0C00 = inventory sale   |               |
|   |   |              | can be deleted per department   |               |
|   |   |              | only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V148, bC from V114 |               |
| N | 4 | Department   | 0 – 9999dd  | ( 4)          |
|   |   |              | only for inventory sales  |               |
| N | 2 | Scale Number | 0d  | ( 2)          |
| N | 1 | Sales Type   | 0 - 1d  | ( 1)          |
|   |   |              | 0 = general Sales (TAF is deleted)  |               |
|   |   |              | 1 = Special Offer Article Sales (TAF is not deleted)                                  |               |
|   |   |              | -----   |               |
|   |   |              |   | (17)          |

Note: Deletion date and deletion time are stored with the current scale data

(compare Access Code 236 – there are deletion date and deletion time not stored)

**Response**

|   |   |              |                   |      |
|---|---|--------------|-------------------|------|
| N | 1 | RSP          | 1,3d              | ( 1) |
| N | 5 | Code         | 598d              | ( 5) |
| F | 4 | Control      | 0d                | ( 4) |
|   |   |              | 0: data found     |      |
|   |   |              | 1: data not found |      |
| N | 4 | Department   | 0d                | ( 4) |
| N | 2 | Scale Number | 0d                | ( 2) |
|   |   |              | -----             |      |
|   |   |              |                   | (16) |

## Access Code: 616

### Function: Delete Customer Data - Cash register

Customer numbers are freed and made available for new transactions

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |                 |  |      |
|---|---|-----------------|--|------|
| N | 1 | CMD             | 0d   | ( 1) |
| N | 5 | Code            | 616d                                       | ( 5) |
| F | 4 | Control         | 0 - 1d                                     | ( 4) |
|   |   |                 | 0: delete data and release customer number |      |
|   |   |                 | 1: release customer number                 |      |
| N | 4 | Department      | 0 - 9999d                                  | ( 4) |
| N | 2 | Scale Number    | 0 - 64d                                    | ( 2) |
| N | 4 | Customer Number | 0 - 9999d                                  | ( 4) |
|   |   |                 | -----                                      |      |
|   |   |                 |  | (20) |

#### Response

|   |   |                 |                   |      |
|---|---|-----------------|-------------------|------|
| N | 1 | RSP             | 1,3d              | ( 1) |
| N | 5 | Code            | 616d              | ( 5) |
| F | 4 | Control         | 0 - 1d            | ( 4) |
|   |   |                 | 0: data found     |      |
|   |   |                 | 1: data not found |      |
| N | 4 | Department      | 0 - 9999d         | ( 4) |
| N | 2 | Scale Number    | 0 - 64d           | ( 2) |
| N | 4 | Customer Number | 0 - 9999d         | ( 4) |
|   |   |                 | -----             |      |
|   |   |                 |                   | (20) |

## IV-E Accessing the TAF Journal - Access Codes 8XX

### Definition of Access Control for the Journal

The command part (i.e. command message) of these Access Codes must specify the type of access together with the key in the Control Field. The response part (i.e. the response message from the scale) contains the updated status in its Control Field.

| Access type | Meaning               | Description                           |
|-------------|-----------------------|---------------------------------------|
| __ _ 2      | read equal            | read the given record                 |
| __ _ 3      | read greater or equal | read the given record or next highest |
| __ _ 4      | read less or equal    | read the given record or next lowest  |
| __ _ 5      | read greater          | read the next highest record          |
| __ _ 6      | read less             | read the next lowest record           |

| Status  | Meaning                | Description                             |
|---------|------------------------|---|
| 0 _ _ _ | OK                     |   |
| 1 _ _ _ | file not created       |   |
| 2 _ _ _ | no free record         |   |
| 3 _ _ _ | file corrupt           |   |
| 4 _ _ _ | not found              | record not found                        |
| 5 _ _ _ | wrong key              |   |
| 6 _ _ _ | double key             | several records exist with the same Key |
| C _ _ _ | (12) bad parameter     |   |
| D _ _ _ | (13) general error     |   |
| E _ _ _ | (14) undefined command |   |
| F _ _ _ | (15) not executable    |   |

## Access Code: 800

### Function: Bookings, Single Entry Receipts, Blank Receipts

Accessing data for Bookings, Single Entry Receipts and Blank Receipts

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |      |                   |                       |      |
|---|------|-------------------|-----------------------|------|
| N | 1    | CMD               | 0d                    | ( 1) |
| N | 5    | Code              | 800d                  | ( 5) |
| F | 4    | Control           | Access   Key   Status | ( 4) |
| N | 4    | Department Number | 0 - 9999d             | ( 4) |
| N | 2    | Scale number      | 0 - 64d               | ( 2) |
| N | 4    | Receipt Number    | 0 - 9999d             | ( 4) |
| N | 2[3] | Date              | dd / mm / yy          | ( 6) |
| N | 2[2] | Time              | hh / mm               | ( 4) |
| N | 3    | Position Number   | 0 - 999d              | ( 3) |

-----  
(33)

#### Response

|   |      |                   |                       |      |
|---|------|-------------------|-----------------------|------|
| N | 1    | RSP               | 1,3d                  | ( 1) |
| N | 5    | Code              | 800d                  | ( 5) |
| F | 4    | Control           | Access   Key   Status | ( 4) |
| N | 4    | Department Number | 0 - 9999d             | ( 4) |
| N | 2    | Scale Number      | 0 - 64d               | ( 2) |
| N | 4    | Receipt Number    | 0 - 9999d             | ( 4) |
| N | 2[3] | Date              | dd / mm / yy          | ( 6) |
| N | 2[2] | Time              | hh / mm               | ( 4) |
| N | 3    | Position Number   | 0 - 999d              | ( 3) |

|          |          |                    |                                 |             |
|----------|----------|--------------------|---------------------------------|-------------|
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>0 - 2d</b>                   | <b>( 3)</b> |
|          |          |                    | <i>0 = booking</i>              |             |
|          |          |                    | <i>1 = single entry receipt</i> |             |
|          |          |                    | <i>2 = blank receipt</i>        |             |

|      |   |                      |                                    |      |
|------|---|----------------------|------------------------------------|------|
| N    | 4 | Department Number    | 1 - 9999d                          | ( 4) |
| N    | 2 | Scale Number         | 1 - 64d                            | ( 2) |
| N(C) | 2 | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack'  | ( 2) |
| N    | 1 | Booking/Cancellation | 0d = Booking,<br>1d = cancellation | ( 1) |

|   |   |              |                          |      |
|---|---|--------------|--------------------------|------|
| N | 1 | Booking Type | 0 - 4d                   | ( 1) |
|   |   |              | <i>0 = weigh PLU</i>     |      |
|   |   |              | <i>1 = miscellaneous</i> |      |
|   |   |              | <i>2 = non-weigh PLU</i> |      |
|   |   |              | <i>3 = hand +</i>        |      |
|   |   |              | <i>4 = hand -</i>        |      |

|   |   |            |                                    |      |
|---|---|------------|------------------------------------|------|
| N | 1 | Price Type | 0 - 9d                             | ( 1) |
|   |   |            | <i>0 = selling price 1</i>         |      |
|   |   |            | <i>1 = selling price 2</i>         |      |
|   |   |            | <i>2 = staggered block price 1</i> |      |
|   |   |            | <i>3 = staggered block price 2</i> |      |
|   |   |            | <i>4 = open price 1</i>            |      |
|   |   |            | <i>5 = Open price 2</i>            |      |
|   |   |            | <i>6 = hand + 1</i>                |      |
|   |   |            | <i>7 = hand + 2</i>                |      |
|   |   |            | <i>8 = special offer price 1</i>   |      |
|   |   |            | <i>9 = Special Offer Price 2</i>   |      |

|   |    |                           |                         |                  |
|---|----|---------------------------|-------------------------|------------------|
| N | 6  | PLU-/Article Group Number | 1 - 999999d             | ( 6)             |
| N | 11 | Weight / Quantity         | (g, pieces)             | (11)             |
| N | 11 | Amount                    | (without decimal point) | (11)             |
| N | 11 | Margin                    | (without decimal point) | (11) only for L2 |
| N | 2  | VAT                       | 0 - 15d                 | ( 2)             |

-----  
(88)

## Access Code: 801

### Function: Receipt Totals

#### Working with receipt totals

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE05 LE06 LE07 LE08 LE09 LE10 LE11 LE12 LE13 LE14 LE15 LE16 LE17 LE18 LE19 LE20 LE21 LE22 LE23 LE24 LE25 LE26 LE27 LE28 LE29 LE30 LE31 LE32 LE33 LE34 LE35 LE36 LE37 LE38 LE39 LE40 LE41 LE42 LE43 LE44 LE45 LE46 LE47 LE48 LE49 LE50 LE51 LE52 LE53 LE54 LE55 LE56 LE57 LE58 LE59 LE60 LE61 LE62 LE63 LE64 LE65 LE66 LE67 LE68 LE69 LE70 LE71 LE72 LE73 LE74 LE75 LE76 LE77 LE78 LE79 LE80 LE81 LE82 LE83 LE84 LE85 LE86 LE87 LE88 LE89 LE90 LE91 LE92 LE93 LE94 LE95 LE96 LE97 LE98 LE99 LF03

#### Command

See Access Code 800

*Note: The response message of Access Code 801 is sent in acknowledgement to a command message request using Access Code 800 to read a "Receipt Total" from a transaction file record.*

#### Response

|          |          |                      |  |                  |
|----------|----------|----------------------|--|------------------|
| N        | 1        | RSP                  | 1,3d   | ( 1)             |
| N        | 5        | Code                 | 801d   | ( 5)             |
| F        | 4        | Control              | Access   Key   Status  | ( 4)             |
| N        | 4        | Department           | 0 - 9999d  | ( 4)             |
| N        | 2        | Scale Number         | 0 - 64d  | ( 2)             |
| N        | 4        | Receipt Number       | 0 - 9999d  | ( 4)             |
| N        | 2[3]     | Date                 | dd / mm / yy   | ( 6)             |
| N        | 2[2]     | Time                 | hh / mm  | ( 4)             |
| N        | 3        | Position Number      | 0 - 999d   | ( 3)             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>3d = Totals</b>   | <b>( 3)</b>      |
| N        | 4        | Department Number    | 1 - 9999d  | ( 4)             |
| N        | 2        | Scale Number         | 1 - 64d  | ( 2)             |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack'  | ( 2)             |
| N        | 1        | Booking/Cancellation | 0 - 1d<br>0d = booking<br>1d = cancellation  | ( 1)             |
| N        | 1        | Type of Sale         | 0 - 3d<br>0 = regular sale<br>1 = personnel sale<br>2 = checkout-slip<br>3 = order | ( 1)             |
| N        | 11       | Number of Entries    |  | (11)             |
| N        | 11       | Total Weight         | (g)  | (11)             |
| N        | 11       | Total                | (without decimal point)  | (11)             |
| N        | 11       | Margin               | (without decimal point)  | (11) only for L2 |
|          |          |                      |  | -----            |
|          |          |                      |  | (90)             |

## Access Code: 802

### Function: Payment Methods

Accessing Payment Methods (e.g. cash, cheque, card, vouchers, foreign currency etc.)

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 Fehler! Verweisquelle konnte nicht gefunden werden. LM61 LM70 LM09 LM25 LF05 LM09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 802 is sent in acknowledgement to a command message request using Access Code 800 to read a "Payment Method" from a transaction file record.*

#### Response

|          |          |                        |  |             |
|----------|----------|------------------------|--|-------------|
| N        | 1        | RSP                    | 1,3d                                   | ( 1)        |
| N        | 5        | Code                   | 802d                                   | ( 5)        |
| F        | 4        | Control                | Access   Key   Status                  | ( 4)        |
| N        | 4        | Department             | 0 - 9999d                              | ( 4)        |
| N        | 2        | Scale Number           | 0 - 64d                                | ( 2)        |
| N        | 4        | Receipt Number         | 0 - 9999d                              | ( 4)        |
| N        | 2[3]     | Date                   | dd / mm / yy                           | ( 6)        |
| N        | 2[2]     | Time                   | hh / mm                                | ( 4)        |
| N        | 3        | Position Number        | 0 - 999d                               | ( 3)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>     | <b>4d = Payment Method</b>             | <b>( 3)</b> |
| N        | 4        | Department Number      | 1 - 9999d                              | ( 4)        |
| N        | 2        | Scale Number           | 1 - 64d                                | ( 2)        |
| N(C)     | 2        | Operator Number        | 1 - 99d, 'Self-Serve', 'Pre-Pack'      | ( 2)        |
| N        | 1        | Booking/Cancellation   | 0 - 1d                                 | ( 1)        |
|          |          |                        | <i>0d = booking</i>                    |             |
|          |          |                        | <i>1d = cancellation</i>               |             |
| N        | 1        | Sales category Number  | 0 - 9d                                 | ( 1)        |
| N        | 1        | Payment Method Number  | 0 - 9d                                 | ( 1)        |
| N        | 11       | Amount Paid            | (without decimal point)                | (11)        |
| C        | 3        | Payment Method Abbrev. | ASCII character                        | ( 3)        |
| N        | 1        | Decimal Places         | 0 - 3d                                 | ( 1)        |
| N        | 1        | Rounding               | 0 - 1d                                 | ( 1)        |
|          |          |                        | <i>0d = rounding to the nearest 1</i>  |             |
|          |          |                        | <i>1d = rounding to the nearest 5</i>  |             |
| N        | 11       | Factor                 | (Exchange rate, without decimal point) | (11)        |
| N        | 11       | Rate                   | (without decimal point)                | (11)        |
|          |          |                        |  | -----       |
|          |          |                        |  | (85)        |

## Access Code: 803

### Function: Change Returned

Accessing change returned entries

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 803 is sent in acknowledgement to a command message request using Access Code 800 to access a "Change Returned" record in the transaction file.*

#### Response

|          |          |                      |  |             |
|----------|----------|----------------------|--|-------------|
| N        | 1        | RSP                  | 1,3d   | ( 1)        |
| N        | 5        | Code                 | 803d   | ( 5)        |
| F        | 4        | Control              | Access   Key   Status  | ( 4)        |
| N        | 4        | Department Number    | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| N        | 4        | Receipt Number       | 0 - 9999d  | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm  | ( 4)        |
| N        | 3        | Position Number      | 0 - 999d   | ( 3)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>5d = Change Returned</b>  | <b>( 3)</b> |
| N        | 4        | Department Number    | 1 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d  | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack'                                    | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d<br>0d = booking<br>1d = cancellation                          | ( 1)        |
| N        | 11       | Paid                 | (Sum of all Payment Methods without decimal point in local currency) | (11)        |
| N        | 11       | Total                | (without decimal point)  | (11)        |
| N        | 11       | Change Returned      | (without decimal point)  | (11)        |
|          |          |                      |  | -----       |
|          |          |                      |  | (78)        |

## Access Code: 804

### Function: VAT

#### Accessing VAT Entries

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 804 is sent in acknowledgement to a command message request using Access Code 800 to access "VAT" from a transaction file record.*

#### Response

|          |          |                      |                                   |             |
|----------|----------|----------------------|-----------------------------------|-------------|
| N        | 1        | RSP                  | 1,3d                              | ( 1)        |
| N        | 5        | Code                 | 804d                              | ( 5)        |
| F        | 4        | Control              | Access   Key   Status             | ( 4)        |
| N        | 4        | Department           | 0 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number         | 0 - 64d                           | ( 2)        |
|          |          |                      |                                   |             |
| N        | 4        | Receipt Number       | 0 - 9999d                         | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy                      | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm                           | ( 4)        |
| N        | 3        | Position Number      | 0 - 999d                          | ( 3)        |
|          |          |                      |                                   |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>6d = VAT</b>                   | <b>( 3)</b> |
| N        | 4        | Department Number    | 1 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d                           | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d                            | ( 1)        |
|          |          |                      | 0d = booking                      |             |
|          |          |                      | 1d = cancellation                 |             |
|          |          |                      |                                   |             |
| N        | 2        | VAT Number           | 0 - 15d                           | ( 2)        |
| N        | 4        | VAT Rate             | 0 - 9999d                         | ( 4)        |
| N        | 11       | VAT Sales            | (without decimal point)           | (11)        |
| N        | 11       | VAT Amount           | (without decimal point)           | (11)        |
|          |          |                      |                                   | -----       |
|          |          |                      |                                   | (73)        |



## Access Code: 805

### Function: Article Discounts

#### Accessing Article Discounts

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 805 is sent in acknowledgement to a command message request using Access Code 800 to access "Article Discounts" in a transaction file record*

#### Response

|          |          |                           |                                   |             |
|----------|----------|---------------------------|-----------------------------------|-------------|
| N        | 1        | RSP                       | 1,3d                              | ( 1)        |
| N        | 5        | Code                      | 805d                              | ( 5)        |
| F        | 4        | Control                   | Access   Key   Status             | ( 4)        |
| N        | 4        | Department                | 0 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number              | 0 - 64d                           | ( 2)        |
|          |          |                           |                                   |             |
| N        | 4        | Receipt Number            | 0 - 9999d                         | ( 4)        |
| N        | 2[3]     | Date                      | dd / mm / yy                      | ( 6)        |
| N        | 2[2]     | Time                      | hh / mm                           | ( 4)        |
| N        | 3        | Position Number           | 0 - 999d                          | ( 3)        |
|          |          |                           |                                   |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b>        | <b>7d = Article Discount</b>      | <b>( 3)</b> |
| N        | 4        | Department Number         | 1 - 9999d                         | ( 4)        |
| N        | 2        | Scale Number              | 1 - 64d                           | ( 2)        |
| N(C)     | 2        | Operator Number           | 1 - 99d, 'Self-Serve', 'Pre-Pack' | ( 2)        |
| N        | 1        | Booking/Cancellation      | 0 - 1d                            | ( 1)        |
|          |          |                           | 0d = booking                      |             |
|          |          |                           | 1d = cancellation                 |             |
|          |          |                           |                                   |             |
| N        | 6        | PLU Number                | 1 - 999999d                       | ( 6)        |
| N        | 1        | Mark-up / Discount Number | 0 - 9d                            | ( 1)        |
| N        | 5        | Percentage                | +/- 0 - 9999d                     | ( 5)        |
|          |          |                           | Percentage +/- ##.## (0 - 99.99)  |             |
|          |          |                           |                                   |             |
| N        | 11       | Amount                    | (without decimal point)           | (11)        |
| N        | 11       | Mark-up / Discount Amount | (without decimal point)           | (11)        |
|          |          |                           | -----                             |             |
|          |          |                           |                                   | (79)        |

## Access Code: 806

### Function: Total Discounts

#### Accessing Total Discounts

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 806 is sent in acknowledgement to a command message request using Access Code 800 to access "Total Discount" from a transaction file record*

#### Response

|          |          |                           |   |             |
|----------|----------|---------------------------|---|-------------|
| N        | 1        | RSP                       | 1,3d                                    | ( 1)        |
| N        | 5        | Code                      | 806d                                    | ( 5)        |
| F        | 4        | Control                   | Access   Key   Status                   | ( 4)        |
| N        | 4        | Department Number         | 0 - 9999d                               | ( 4)        |
| N        | 2        | Scale Number              | 0 - 64d                                 | ( 2)        |
| N        | 4        | Receipt number            | 0 - 9999d                               | ( 4)        |
| N        | 2[3]     | Date                      | dd / mm / yy                            | ( 6)        |
| N        | 2[2]     | Time                      | hh / mm                                 | ( 4)        |
| N        | 3        | Position Number           | 0 - 999d                                | ( 3)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>        | <b>8d = Total discount</b>              | <b>( 3)</b> |
| N        | 4        | Department Number         | 1 - 9999d                               | ( 4)        |
| N        | 2        | Scale Number              | 1 - 64d                                 | ( 2)        |
| N(C)     | 2        | Operator Number           | 1 - 99d, 'Self-Serve', 'Pre-Pack'       | ( 2)        |
| N        | 1        | Booking/Cancellation      | 0 - 1d                                  | ( 1)        |
|          |          |                           | <i>0d = booking</i>                     |             |
|          |          |                           | <i>1d = cancellation</i>                |             |
| N        | 1        | Mark-up / Discount Number | 0 - 9d                                  | ( 1)        |
| N        | 5        | Percentage                | +/- 0 - 9999d                           | ( 5)        |
|          |          |                           | <i>percentage +/-###.## (0 - 99.99)</i> |             |
| N        | 11       | Total                     | (without decimal point)                 | (11)        |
| N        | 11       | Mark-up / Discount Amount | (without decimal point)                 | (11)        |
|          |          |                           | -----                                   |             |
|          |          |                           |   | (73)        |

## Access Code: 807

### Function: Price Changes

Accessing price changes

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE01 LE02 LE03 LE04 LE05 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

**Command**

|   |      |                   |                       |       |
|---|------|-------------------|-----------------------|-------|
| N | 1    | CMD               | 0d                    | ( 1)  |
| N | 5    | Code              | 807d                  | ( 5)  |
| F | 4    | Control           | Access   Key   Status | ( 4)  |
| N | 4    | Department Number | 0 - 9999d             | ( 4)  |
| N | 2    | Scale Number      | 0 - 64d               | ( 2)  |
|   |      |                   |                       |       |
| N | 5    | Receipt Number    | 10 000d               | ( 5)  |
| N | 2[3] | Date              | dd / mm / yy          | ( 6)  |
| N | 2[2] | Time              | hh / mm               | ( 4)  |
| N | 5    | Position Number   | 0 - 65536d            | ( 5)  |
|   |      |                   |                       | ----- |
|   |      |                   |                       | (36)  |

**Response**

|          |          |                    |                                |             |
|----------|----------|--------------------|--------------------------------|-------------|
| N        | 1        | RSP                | 1,3d                           | ( 1)        |
| N        | 5        | Code               | 807d                           | ( 5)        |
| F        | 4        | Control            | Access   Key   Status          | ( 4)        |
| N        | 4        | Department         | 0 - 9999d                      | ( 4)        |
| N        | 2        | Scale Number       | 0 - 64d                        | ( 2)        |
|          |          |                    |                                |             |
| N        | 5        | Receipt Number     | 10 000d                        | ( 5)        |
| N        | 2[3]     | Date               | dd / mm / yy                   | ( 6)        |
| N        | 2[2]     | Time               | hh / mm                        | ( 4)        |
| N        | 5        | Position Number    | 0 - 65536d                     | ( 5)        |
|          |          |                    |                                |             |
| <b>N</b> | <b>3</b> | <b>Record Type</b> | <b>9d = Price modification</b> | <b>( 3)</b> |
| N        | 4        | Department Number  | 1 - 9999d                      | ( 4)        |
| N        | 2        | Scale Number       | 1 - 64d                        | ( 2)        |
| N        | 2        | Operator Number    | 1 - 99d                        | ( 2)        |
|          |          |                    |                                |             |
| N        | 1        | Price Type         | 0 - 3d                         | ( 1)        |
|          |          |                    | 0 = selling Price 1            |             |
|          |          |                    | 1 = selling Price 2            | only for L2 |
|          |          |                    | 2 = staggered block price 1    |             |
|          |          |                    | 3 = staggered block price 2    |             |
|          |          |                    |                                |             |
| N        | 6        | PLU Number         | 1 - 999999d                    | ( 6)        |
| N        | 8        | Old Price          | +/- 0-999999(9)d               | ( 8)        |
| N        | 8        | New Price          | +/- 0-999999(9)d               | ( 8)        |
|          |          |                    |                                | -----       |
|          |          |                    |                                | (70)        |

## Access Code: 808

### Function: Operator Timekeeping

Accessing operator sign-ons, sign-offs and quick sign-offs

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |      |                   |                       |       |
|---|------|-------------------|-----------------------|-------|
| N | 1    | CMD               | 0d                    | ( 1)  |
| N | 5    | Code              | 808d                  | ( 5)  |
| F | 4    | Control           | Access   Key   Status | ( 4)  |
| N | 4    | Department Number | 0 - 9999d             | ( 4)  |
| N | 2    | Scale Number      | 0 - 64d               | ( 2)  |
|   |      |                   |                       |       |
| N | 5    | Receipt Number    | 20 000d               | ( 5)  |
| N | 2[3] | Date              | dd / mm / yy          | ( 6)  |
| N | 2[2] | Time              | hh / mm               | ( 4)  |
| N | 5    | Position Number   | 0 - 65536d            | ( 5)  |
|   |      |                   |                       | ----- |
|   |      |                   |                       | (36)  |

#### Response

|          |          |                       |  |                        |
|----------|----------|-----------------------|--|------------------------|
| N        | 1        | RSP                   | 1,3d   | ( 1)                   |
| N        | 5        | Code                  | 808d   | ( 5)                   |
| F        | 4        | Control               | Access   Key   Status                          | ( 4)                   |
| N        | 4        | Department            | 0 - 9999d                                      | ( 4)                   |
| N        | 2        | Scale Number          | 0 - 64d  | ( 2)                   |
|          |          |                       |  |                        |
| N        | 5        | Receipt Number        | 20 000d  | ( 5)                   |
| N        | 2[3]     | Date                  | dd / mm / yy                                   | ( 6)                   |
| N        | 2[2]     | Time                  | hh / mm  | ( 4)                   |
| N        | 5        | Position Number       | 0 - 65536d                                     | ( 5)                   |
|          |          |                       |  |                        |
| <b>N</b> | <b>3</b> | <b>Record type</b>    | <b>10d = Sign-on, sign-off, quick sign-off</b> | <b>( 3)</b>            |
| N        | 4        | Department Number     | 1 - 9999d                                      | ( 4)                   |
| N        | 2        | Scale Number          | 1 - 64d  | ( 2)                   |
| N        | 2        | Operator Number       | 1 - 99d  | ( 2)                   |
|          |          |                       |  |                        |
| N        | 2        | Roving Operator Group | 1 - 15d  | ( 2)                   |
| N        | 2        | Operator Keys         | 1 - 99d  | ( 2)                   |
| N        | 1        | Status                | 0 - 2d   | ( 1)                   |
|          |          |                       |  | 0 = signed-off         |
|          |          |                       |  | 1 = signed-on          |
|          |          |                       |  | 2 = shortly signed-off |
|          |          |                       |  | -----                  |
|          |          |                       |  | (52)                   |

**Access Code: 809****Function: Resetting Receipt Numbers and Deleting the TAF**

After executing this access code, all receipt numbers in a scale or in a receipt number circuit are freed for use with new transactions. The TAF can also be deleted.

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM01 LM70 LM03 LM23 LF03 Fehler: Verweisquelle konnte nicht gefunden werden LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

**Command**

|   |   |              |   |      |
|---|---|--------------|---|------|
| N | 1 | CMD          | 0d                                      | ( 1) |
| N | 5 | Code         | 809d                                    | ( 5) |
| F | 4 | Control      | 0 - 2d                                  | ( 4) |
|   |   |              | 0 = delete TAF                          |      |
|   |   |              | 1 = reset receipt number                |      |
|   |   |              | 2 = delete TAF and reset receipt number |      |
| N | 4 | Department   | 0 - 9999d                               | ( 4) |
| N | 2 | Scale Number | 0 - 64d                                 | ( 2) |
|   |   |              | -----                                   | (16) |

**Response**

|   |   |              |           |      |
|---|---|--------------|-----------|------|
| N | 1 | RSP          | 1,3d      | ( 1) |
| N | 5 | Code         | 809d      | ( 5) |
| F | 4 | Control      | 0 - 1d    | ( 4) |
|   |   |              | 0 = ok    |      |
|   |   |              | 1 = error |      |
| N | 4 | Department   | 0 - 9999d | ( 4) |
| N | 2 | Scale Number | 0 - 64d   | ( 2) |
|   |   |              | -----     | (16) |

## Access Code: 810

### Function: List Free Space in TAF Memory

The response part of this Access Code displays the amount of free memory space remaining in the transaction file.

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

|   |   |              |      |       |
|---|---|--------------|------|-------|
| N | 1 | CMD          | 0d   | ( 1)  |
| N | 5 | Code         | 810d | ( 5)  |
| F | 4 | Control      | 0d   | ( 4)  |
|   |   |              |      |       |
| N | 4 | Department   | 0d   | ( 4)  |
| N | 2 | Scale Number | 0d   | ( 2)  |
|   |   |              |      | ----- |
|   |   |              |      | (16)  |

#### Response

|   |   |                  |           |                       |
|---|---|------------------|-----------|-----------------------|
| N | 1 | RSP              | 1,3d      | ( 1)                  |
| N | 5 | Code             | 810d      | ( 5)                  |
| F | 4 | Control          | 0 - 1d    | ( 4)                  |
|   |   |                  |           |                       |
|   |   |                  |           | <i>0d=no overflow</i> |
|   |   |                  |           | <i>1d=overflow</i>    |
| N | 4 | Department       | 1 - 9999d | ( 4)                  |
| N | 2 | Scale Number     | 1 - 64d   | ( 2)                  |
|   |   |                  |           |                       |
| N | 5 | Amount of Memory | 0 - 65536 | ( 5)                  |
|   |   |                  |           | -----                 |
|   |   |                  |           | (21)                  |

## Access Code: 811

### Function: Customer Number

Accessing the customer number in a Checkout-Slip or Collection-Slip

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 811 is sent in acknowledgement to a command message request using Access Code 800 to access a "Customer Number" in a transaction file record.*

#### Response

|      |      |                      |                       |      |
|------|------|----------------------|-----------------------|------|
| N    | 1    | RSP                  | 1,3d                  | ( 1) |
| N    | 5    | Code                 | 811d                  | ( 5) |
| F    | 4    | Control              | Access Key Status     | ( 4) |
| N    | 4    | Department           | 0 - 9999d             | ( 4) |
| N    | 2    | Scale Number         | 0 - 64d               | ( 2) |
|      |      |                      |                       |      |
| N    | 4    | Receipt Number       | 0 - 9999d             | ( 4) |
| N    | 2[3] | Date                 | dd / mm / yy          | ( 6) |
| N    | 2[2] | Time                 | hh / mm               | ( 4) |
| N    | 3    | Position Number      | 0 - 999d              | ( 3) |
|      |      |                      |                       |      |
| N    | 3    | Record Type          | 11d = Customer Number | ( 3) |
|      |      |                      |                       |      |
| N    | 4    | Department Number    | 1 - 9999d             | ( 4) |
| N    | 2    | Scale Number         | 1 - 64d               | ( 2) |
| N(C) | 2    | Operator Number      | 1 - 99d, 'SS', 'PP'   | ( 2) |
| N    | 1    | Booking/Cancellation | 0 - 1d                | ( 1) |
|      |      |                      | 0d = booking          |      |
|      |      |                      | 1d = cancellation     |      |
|      |      |                      |                       |      |
| N    | 1    | Receipt Type         | 0 - 1d                | ( 1) |
|      |      |                      | 0 = checkout-slip     |      |
|      |      |                      | 1 = collection-slip   |      |
|      |      |                      |                       |      |
| N    | 4    | Customer Number      | 0 - 9999d             | ( 4) |
|      |      |                      | -----                 |      |
|      |      |                      |                       | (50) |

## Access Code: 812

### Function: Checkout-Slips and Collection-Slips

Settling Checkout-Slip and Collection-Slip amounts to a Receipt

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 812 is sent in acknowledgement to a command message request using Access Code 800 to access "Checkout-Slip and Collection-Slip amounts" in a transaction file record.*

#### Response

|          |          |                      |  |             |
|----------|----------|----------------------|--|-------------|
| N        | 1        | RSP                  | 1,3d   | ( 1)        |
| N        | 5        | Code                 | 812d   | ( 5)        |
| F        | 4        | Control              | Access Key Status  | ( 4)        |
| N        | 4        | Department           | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| N        | 4        | Receipt Number       | 0 - 9999d  | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm  | ( 4)        |
| N        | 3        | Position Number      | 0 - 999d   | ( 3)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>   | <b>12d = Checkout-/Collection - Slip</b>                         | <b>( 3)</b> |
| N        | 4        | Department Number    | 1 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d  | ( 2)        |
| N(C)     | 2        | Operator Number      | 1 - 99d, 'SS', 'PP'  | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d<br><i>0d = booking</i><br><i>1d = cancellation</i>        | ( 1)        |
| N        | 1        | Receipt Type         | 0 - 1d<br><i>0 = checkout-slip</i><br><i>1 = collection-slip</i> | ( 1)        |
| N        | 4        | Customer Number      | 0 - 9999d  | ( 4)        |
| N        | 4        | Receipt Number       | 0 - 9999d  | ( 4)        |
| N        | 2[3]     | Customer Date        | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Customers Time       | hh / mm  | ( 4)        |
| N        | 11       | Number of Entries    |  | (11)        |
| N        | 11       | Total                | (without decimal point)  | (11)        |
|          |          |                      |  | -----       |
|          |          |                      |  | (86)        |



## Access Code: 813

### Function: Receipt Cancellation / Deletion

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM23 LF05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03 Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

|   |      |                 |                          |      |
|---|------|-----------------|--------------------------|------|
| N | 1    | CMD             | 0d                       | ( 1) |
| N | 5    | Code            | 813d                     | ( 5) |
| F | 4    | Control         | 0 - 1d                   | ( 4) |
|   |      |                 | <i>0d = cancellation</i> |      |
|   |      |                 | <i>1d = deletion</i>     |      |
| N | 4    | Department      | 0 - 9999d                | ( 4) |
| N | 2    | Scale Number    | 0 - 64d                  | ( 2) |
| N | 4    | Receipt Number  | 0 - 9999d                | ( 4) |
| N | 2[3] | Date            | dd / mm / yy             | ( 6) |
| N | 2[2] | Time            | hh / mm                  | ( 4) |
| N | 3    | Position Number | 0 - 999d                 | ( 3) |
|   |      |                 | -----                    |      |
|   |      |                 |                          | (33) |

#### Response

|   |      |                 |  |      |
|---|------|-----------------|--|------|
| N | 1    | RSP             | 1,3d                                     | ( 1) |
| N | 5    | Code            | 813d                                     | ( 5) |
| F | 4    | Control         | 0 - 1d                                   | ( 4) |
|   |      |                 | <i>0d = receipt cancelled</i>            |      |
|   |      |                 | <i>1d = receipt not found</i>            |      |
|   |      |                 | <i>2d = receipt is already cancelled</i> |      |
| N | 4    | Department      | 0 - 9999d                                | ( 4) |
| N | 2    | Scale Number    | 0 - 64d                                  | ( 2) |
| N | 4    | Receipt Number  | 0 - 9999d                                | ( 4) |
| N | 2[3] | Date            | dd / mm / yy                             | ( 6) |
| N | 2[2] | Time            | hh / mm                                  | ( 4) |
| N | 3    | Position Number | 0 - 999d                                 | ( 3) |
|   |      |                 | -----                                    |      |
|   |      |                 |  | (33) |

## Access Code: 816

### Function: Booking-additionals Reciept-Repetition

Handling of booking-datas in the TAF – additional for Reciept-Repetition

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

#### Command

see Access Code 800

*Note: The response message of Access Code 816 is sent in acknowledgement to a command message request using Access Code 800 to access "Checkout-Slip and Collection-Slip amounts" in a transaction file record.*

#### Response

|          |          |                          |  |             |
|----------|----------|--------------------------|--|-------------|
| N        | 1        | RSP                      | 1,3d   | ( 1)        |
| N        | 5        | Code                     | 816d   | ( 5)        |
| F        | 4        | Control                  | Access Key Status  | ( 4)        |
| N        | 4        | Department               | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number             | 0 - 64d  | ( 2)        |
| N        | 4        | Receipt Number           | 0 - 9999d  | ( 4)        |
| N        | 2[3]     | Date                     | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Time                     | hh / mm  | ( 4)        |
| N        | 3        | Position Number          | 0 - 999d   | ( 3)        |
| <b>N</b> | <b>3</b> | <b>Record Type</b>       | <b>14d = Booking-Additional</b>                              | <b>( 3)</b> |
| N        | 4        | Department Number        | 1 - 9999d  | ( 4)        |
| N        | 2        | Scale Number             | 1 - 64d  | ( 2)        |
| N(C)     | 2        | Operator Number          | 1 - 99d, 'SS', 'PP'  | ( 2)        |
| N        | 1        | Booking/Cancellation     | 0 - 1d<br><i>0d = booking<br/>1d = cancellation</i>          | ( 1)        |
| N        | 11       | base price               | +/- 0 - 9999999999d  | (11)        |
| N        | 11       | Tare                     | 0 - 9999999999<br><i>Tara in [g] ohne Komma</i>              | (11)        |
| N        | 1        | Tare type                | 0 - 1d<br><i>0 = tare offset<br/>1 = tare default</i>        | ( 1)        |
| N        | 11       | Gratis-ammount           | 0 - 9999999999<br><i>without decimal point</i>               | (11)        |
| N        | 11       | Gratis-weight / quantity | 0 - 9999999999<br><i>weight in [g] without decimal point</i> | (11)        |

F 4 Article-Flag

( 4)

| Bit   | Meaning                        | Value   | Rem.           |
|-------|--------------------------------|---|----------------|
| 0     | Weigh-/Non-weigh PLU           | 0 = Weigh 1 = non-weigh   |                |
| 1     | Price overwrite                | 0 = no 1 = yes  |                |
| 2     | Special Offer (!! disabled !!) | 0 = no 1 = yes  |                |
| 3     | Special Offer reserved         | 0 = no 1 = yes  |                |
| 4     | Block article                  | 0 = no 1 = yes  |                |
| 5     | Enable discount                | 0 = no 1 = yes  |                |
| 6 – 7 | Don't care                     |   |                |
| 8 – 9 | Traffic Light Smiley           | 00 = without<br>01 = green<br>10 = red<br>11 = depending on margin  | only<br>for L2 |
| 10-11 | Product-Text                   | 00 = without<br>01 = show on the Display<br>10 = print on the receipt   |                |
| 12    | kind of weight                 | 0 = measured weight,<br>1 = manual weight<br>oder scanned weight  |                |
| 13    | Don't care                     |   |                |
| 14-15 | Decimal places for the weight  | 00 = 3 Decimal Places<br>(Standard)<br>01 = 2 Decimal Places<br>10 = 1 Decimal Places<br>11 = no Decimal Places |                |

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(94)

## Access Code: 817

### Function: Delivery Note Bookings - MIRA Cash Register

Accessing delivery note bookings data

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LP05 LE09 LM08 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03 Fehler: Verweisquelle konnte nicht gefunden werden

#### Command (delete, cancel) /

|   |    |                   |                       |              |
|---|----|-------------------|-----------------------|--------------|
| N   | 1  | CMD               | 0d                    | ( 1)         |
| N   | 5  | Code              | 817d                  | ( 5)         |
| F   | 4  | Control           | Access   Key   Status | ( 4)         |
| N   | 4  | Department        | 0 - 9999d             | ( 4)         |
|   | N  | 2                 | Scale Number          | 0 - 64d ( 2) |
| N   | 3  | Selection Control | 0 – 5d                | ( 3)         |
| <i>Delete:</i>                              |    |                   |                       |              |
| 0 ⇨ delete individual delivery note         |    |                   |                       |              |
| (only cancelled)                            |    |                   |                       |              |
| 1 ⇨ delete all delivery notes               |    |                   |                       |              |
| 2 ⇨ delete all closed delivery notes        |    |                   |                       |              |
| 3 ⇨ delete all cancelled delivery notes     |    |                   |                       |              |
| 5 ⇨ delete individual closed delivery notes |    |                   |                       |              |
| <i>Cancel:</i>                              |    |                   |                       |              |
| 4 ⇨ cancel individual delivery notes        |    |                   |                       |              |
| (only closed)                               |    |                   |                       |              |
| C   | 13 | Customer Number   | ASCII Numbers         | (13)         |
| N   | 4  | Receipt Number    | 0 - 9999d             | ( 4)         |
|   |    |                   |                       | -----        |
|   |    |                   |                       | (36)         |

#### Response (delete, cancel)

|  |    |                   |                       |       |
|--|----|-------------------|-----------------------|-------|
| N  | 1  | RSP               | 1,3d                  | ( 1)  |
| N  | 5  | Code              | 817d                  | ( 5)  |
| F  | 4  | Control           | Access   Key   Status | ( 4)  |
| for Commands 1, 2, or 3                                |    |                   |                       |       |
| Status as in Standard list                             |    |                   |                       |       |
| for Commands 0 or 4                                    |    |                   |                       |       |
| (Individual deletion, Individual cancellation)         |    |                   |                       |       |
| 0d = delivery note cancelled /deleted                  |    |                   |                       |       |
| 1d = delivery note not found                           |    |                   |                       |       |
| 2d = delivery note is already cancelled                |    |                   |                       |       |
| 3d = delivery note closed / cancelled                  |    |                   |                       |       |
| N  | 4  | Department        | 0 - 9999d             | ( 4)  |
| N  | 2  | Scale Number      | 0 - 64d               | ( 2)  |
| N  | 3  | Selection Control | 0 – 5d                | ( 3)  |
| <i>delete:</i>   |    |                   |                       |       |
| 0 ⇨ delete individual delivery note                    |    |                   |                       |       |
| (only cancelled)                                       |    |                   |                       |       |
| 1 ⇨ delete all delivery notes                          |    |                   |                       |       |
| 2 ⇨ delete all closed delivery notes                   |    |                   |                       |       |
| 3 ⇨ delete all cancelled delivery notes                |    |                   |                       |       |
| 5 ⇨ delete individual closed delivery notes            |    |                   |                       |       |
| <i>cancel:</i>   |    |                   |                       |       |
| 4 ⇨ cancel individual delivery notes                   |    |                   |                       |       |
| (only closed)  |    |                   |                       |       |
| C  | 13 | Customer Number   | ASCII numbers         | (13)  |
| only used in combination with Selection Control 0 or 4 |    |                   |                       |       |
| N  | 4  | Receipt Number    | 0 - 9999d             | ( 4)  |
| only used in combination with Selection Control 0 or 4 |    |                   |                       |       |
|  |    |                   |                       | ----- |
|  |    |                   |                       | (36)  |

**Access Code: 821****Function: Supplementary Info: E-Cash for MIRA, Cash Register**

For card payments, additional information required to be able to allocate a card reader receipt to a cash register receipt

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM81 LM82 LM83 LM84 LM85 LM86 LM87 LM88 LM89 LM90 LM91 LM92 LM93 LM94 LM95 LM96 LM97 LM98 LM99

**Command**

see Access Code 800

*Note: The response message of Access Code 821 is sent in acknowledgement to a command message request using Access Code 800 to access "Electronic Cash Parameters" from a transaction file record*

**Response**

|          |          |                      |   |             |
|----------|----------|----------------------|---|-------------|
| N        | 1        | RSP                  | 1,3d  | ( 1)        |
| N        | 5        | Code                 | 820d  | ( 5)        |
| F        | 4        | Control              | Access   Key   Status                               | ( 4)        |
| N        | 4        | Department           | 0 - 9999d   | ( 4)        |
| N        | 2        | Scale Number         | 0 - 64d   | ( 2)        |
|          |          |                      |   |             |
| N        | 4        | Receipt Number       | 0 - 9999d   | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy  | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm   | ( 4)        |
| N        | 3        | Position Number      | 0 – 999d  | (.3)        |
|          |          |                      |   |             |
| <b>N</b> | <b>3</b> | <b>Record type</b>   | <b>15d = E-Cash</b>                                 | <b>( 3)</b> |
| N        | 4        | Department Number    | 1 - 9999d   | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d   | ( 2)        |
| N (C)    | 2        | Operator Number      | 1 - 99d   | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d  | ( 1)        |
|          |          |                      | <i>d = booking</i>                                  |             |
|          |          |                      | <i>1d = cancellation</i>                            |             |
|          |          |                      |   |             |
| N        | 8        | Terminal-ID          | 0 - 99999999d                                       | ( 8)        |
| N        | 4        | Terminal Receipt No. | 0 - 9999d   | ( 4)        |
| N        | 6        | Trace Number         | 0 - 999999d   | ( 6)        |
| N        | 3        | Card Type            | 01 - 38d  | ( 3)        |
|          |          |                      | <i>01 = ec card</i>                                 |             |
|          |          |                      | <i>02d = ec card (Magnetic strip) offline (ELV)</i> |             |
|          |          |                      | <i>03d = ec card (Magnetic strip) (PoZ/OLV)</i>     |             |
|          |          |                      | <i>04d = ec card (Magnetic strip) online</i>        |             |
|          |          |                      | <i>06d = EuroCard</i>                               |             |
|          |          |                      | <i>07d = EuroCard offline</i>                       |             |
|          |          |                      | <i>08d = EuroCard online</i>                        |             |
|          |          |                      | <i>11d = American Express</i>                       |             |
|          |          |                      | <i>12d = American Express offline</i>               |             |
|          |          |                      | <i>13d = American Express online</i>                |             |
|          |          |                      | <i>16d = Visa</i>                                   |             |
|          |          |                      | <i>17d = Visa offline</i>                           |             |
|          |          |                      | <i>18d = Visa online</i>                            |             |
|          |          |                      | <i>21d = Diners</i>                                 |             |
|          |          |                      | <i>22d = Diners offline</i>                         |             |
|          |          |                      | <i>23d = Diners online</i>                          |             |
|          |          |                      | <i>26d = JCB</i>                                    |             |
|          |          |                      | <i>27d = JCB offline</i>                            |             |
|          |          |                      | <i>28d = JCB online</i>                             |             |
|          |          |                      | <i>31d = ec card with chip</i>                      |             |
|          |          |                      | <i>32d = Cash card</i>                              |             |
|          |          |                      | <i>34d = ec card with Chip online</i>               |             |
|          |          |                      | <i>36d = Maestro</i>                                |             |
|          |          |                      | <i>37d = Maestro offline</i>                        |             |
|          |          |                      | <i>38d = Maestro online</i>                         |             |

-----  
(66)

## Access Code: 822

### Function: Shortcode

Evaluate TAF-Records Einträge for the Shortcodes

LC05 LC03 LR03 LM01 LM02 LM04 LK05 LM60 LM61 LM70 LM09 LM25 LF05 LE09 LM06 LM26 LE06 LM07 LM27 LE07 LM08 LM28 LM03 LM23 LF03

Fehler: Verweisquelle konnte nicht gefunden werden

#### Command

*command message request using Access Code 800 to access "Electronic Cash Parameters" from a transaction file record*

#### Response

|          |          |                      |  |             |
|----------|----------|----------------------|--|-------------|
| N        | 1        | RSP                  | 1,3d   | ( 1)        |
| N        | 5        | Code                 | 822d   | ( 5)        |
| F        | 4        | Control              | Access   Key   Status  | ( 4)        |
| N        | 4        | Department           | 0 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 0 - 64d  | ( 2)        |
| N        | 4        | Receipt Nummer       | 0 - 9999d  | ( 4)        |
| N        | 2[3]     | Date                 | dd / mm / yy   | ( 6)        |
| N        | 2[2]     | Time                 | hh / mm  | ( 4)        |
| N        | 3        | Position Nummer      | 0 – 999d   | (.3)        |
| <b>N</b> | <b>3</b> | <b>Record-Typ</b>    | <b>16d = Shortcode</b>   | <b>( 3)</b> |
| N        | 4        | Department Number    | 1 - 9999d  | ( 4)        |
| N        | 2        | Scale Number         | 1 - 64d  | ( 2)        |
| N (C)    | 2        | Operator Number      | 1 - 99d  | ( 2)        |
| N        | 1        | Booking/Cancellation | 0 - 1d<br><i>0d = booking<br/>1d = cancelation</i>   | ( 1)        |
| N        | 3        | Shortcode-Nr         | 001 – 100 respectively 230d<br><i>230d only for LM06/26/07/27 from V 155, LF03/05 from V155,<br/>Le06/07 from V146, bC from V114</i> | ( 3)        |
| N        | 6        | PLU-Number           | 0 – 999999d  | ( 6)        |
| N        | 7        | Weight               | 0 – 9999999d<br><i>without decimal point</i>   | ( 7)        |
| N        | 7        | Number of units      | 0 – 9999999d   | ( 7)        |
| C        | 6        | Shortcode-Text       |  | ( 6)        |
|          |          |                      |  | -----       |
|          |          |                      |  | (74)        |

## V Revision History

### Modifications implemented from 07.02.94 to 06.04.94

SG: Some Access Codes (209, 211) know diff. sizes, always to be used as the 1st sequence in the line: char(5) (□) as command, '0' to '9' as size

| Code | Modifications                                    |
|------|--|
| 200  | only one map in the network (department /dev. 0) |
| 201  | conf.-flag ...                                   |
| 208  | date-flags                                       |
| 209  | block-no. f. rd-cmd. ...                         |
| 229  | key-no. has 4 digits (max. remains 100 !)        |
| 230  | ean-Fld.br.: 1d = wide                           |
| 233  | abt-key's/-no's                                  |
| 237  | rep.flag.  |
| 243  | date-flags                                       |
| 401  | strg. only 0002 (RD)                             |
| 402  | strg. only 0002 (RD)                             |
| 407  | strg. only 0002 (RD)                             |
| 412  | key for rd-cmd.                                  |
| 800  | VAT. app.  |
| 813  | strg-meaning wg. cancellation/del.               |

### Modifications implemented from 06.04.94 to 11.05.94

| Code    | Modifications  |
|---------|--|
| 6 K     | new  |
| 221 K   | 2nd text   |
| 223     | SO state corr.   |
| 231 K   | upd.   |
| 246 K   | new (246, 248, 249, 250, 251, 253 also)                      |
| 403     | strg. only 0002 (RD) (405, 411, 412 also)                    |
| 409     | upd.   |
| 500-512 | department -/dev.-# upd., bed. No.: 'SELF-SERVE', 'PRE-PACK' |
| 500     | vx-zusätze: auf/ab entf.;                                    |
| 502     | 'SO ums/ums.' 3 digits                                       |
| 512     | zahl.mittel: upd.  |
| 517 K   | new (518, 519, 520, 596 also)                                |
| 801     | upd. (802 .. 806 also)                                       |
| <1.>    | RMS appended   |

## Modifications Implemented from 11.05.94 to 05.12.94

## Communication Structure

-----  
The use of CTL Bytes changed for Access Codes 2XX..., 4XX..., 5XX.. and 8XX. Users were advised to refer to the corresponding 'Definition of Access Control' at the beginning of each Access Code functional group.

Definitions for LF (line feed) and FS (font size) can be found on page 4.

## New and modified Access Codes

| <b>Code</b> | <b>Modifications</b>                      |
|-------------|---|
| 200         | net-mode, device-type                     |
| 201         | tickets, adv.ord., flag 11-13             |
| 202         | printout mode, flag 2-14 (tare)           |
| 210         | DEL only if no PLU associated             |
| 211         |   |
| 214         |   |
| 215         |   |
| 216         |   |
| 217         | no DEL-ALL                                |
| 221         | surch./red. val. 5-digits                 |
| 223         | status 8                                  |
| 225         | status 8                                  |
| 230         | gr.-obj ext., bte-textsize,               |
| 239         | proc. 6                                   |
| 242         | new                                       |
| 246         | flags ext.                                |
| 248         | function-key, length                      |
| 251         | length                                    |
| 252         | new                                       |
| 255         | new                                       |
| 256         | new                                       |
| 403         | RD only                                   |
| 404         | shop clerk - no. 'PRE-PACK' 'SELF-SERVE'  |
| 408         | piece turno. not in weight                |
| 411         | RD only                                   |
| 500         | control definition: invent.turno., access |
| 500         | rec-Type 9 + 10                           |
| 511         | sellingType 2 + 3                         |
| 512         | sellingType 2 + 3, recType 9 + 10         |
| 520         | reportType 2, device-no.                  |
| 521         | new                                       |
| 522         | new                                       |
| 523         | new                                       |
| 524         | new                                       |
| 596         | deleted, see 252                          |
| 598         | deleted, see 236                          |
| 616         | new                                       |
| 801..806    | no cmd, only rsp                          |
| 801         | seelingtype                               |
| 809         | department/device-no.                     |
| 811         | new                                       |
| 812         | new                                       |

**Appendix:**

E\_STX 216



## Modifications Implemented from 05.12.94 to 06.12.96

## Fundamental changes

-----  
 Becoffe the LP/M scales support some of the ID's only partial or not at all, the main reason for this update is to illustrate the differences by using the id's with L2 or LP/M scales. All this differences are either marked with „L2“ behind the ID (when the ID can't be used with LP/M scales at all) or with marks for the lines in the description of the ID (this part of the ID works with L2 scales, but not or only in a restricts way with LP/M scales).

**Code      Modifications**

260      new  
 261      new  
 262      new  
 266      new  
 267      new

## Modifications Implemented from 22.01.1997 to December 2000

**Code      Modifications**

201      Sum of bytes for Command (create or modify) corrected from 47 to 45  
 207      Staggered prices / Mark-ups / Discounts / Discounts / Special Offer Disabling implemented for MIRA  
 208      New meaning for bit 15 of Date Strike-Through Flags for L2 Appl. 03 and 27  
 214      Supplement "only for EAN8 and EAN13" introduced  
 216      „Shift-key allocation "only for L2" set  
 220      MIRA Advertising Texts increased from 1 to 9  
 222      Access Codes for MIRA Cash Register application released  
 231      Reference made to Access Code 276 for EU currencies  
 233      Additions to MIRA keyboard types / Definition of Hex values for function keys enhanced  
 236      Two sales levels for MIRA  
 237      Two closing of sales configurations for MIRA  
 239      "Note" explaining that this Access Code only takes effect on the scale connected directly to the PC  
 248      Additions to MIRA keyboard types / Definition of Hex values for function keys enhanced  
 246, 250, 251, 252, 255, 256, 261, 269, 270, 500, 508, 512  
         Access Codes for MIRA Cash Register application released  
 261      Additional keys introduced for Secondary Currency, Delivery Note, Wholesale (weight in kg), Electronic Cash, 2<sup>nd</sup> Price Key, and Direct Text Keys  
 267      Additions to EAN legends and EAN128  
  
 4XX      MIRA: Two sales levels  
 401      Special Offer sales information included in MIRA  
 412      Text "Weight- / Quantity Sales" changed to "Sales in Weight"  
  
 5XX      Mira: 2 Sales Levels  
 505      Text "Weight- / Quantity Sales" changed to "Sales in Weight"  
 506      Text "Weight- / Quantity Sales" changed to "Sales in Weight"  
 507      Text "Weight- / Quantity Sales" changed to "Sales in Weight"  
 512      Additional record type for Electronic Cash

**New Access Codes**

269      Direct Text can be allocated to a PLU / L2 (only APP 27 !)  
 270      Direct-Text create / L2 (only APP 27 !)  
 271      Create Account Number / L2 (only APP 27 !)  
 272      Definition of account sales levels / L2 (only APP 27 !)  
 273      Deletion of Account sales / L2 (only APP 27 !)  
 274      Euro Configuration  
 275      Load Printer Logo / MIRA (only Appl 03 and 05)  
 276      Payment Methods EU Currencies (Cash Register)  
 277      User Configuration enhancement for MIRA  
 278      Order data (MIRA, Cash Register)  
 279      Scale Configuration enhancement for MIRA  
 280      Customer Data (MIRA, Cash Register)  
 283      E-Cash Terminal Configuration (MIRA, Cash Register)  
  
 530      L2 (only APP 27 !) / Sales Report - Accounts  
 531      L2 (only APP 27 !) / Summary Report Account Sales on label  
 532      Orders (MIRA, Cash Register)  
 533      Delivery note data (MIRA, Cash Register)  
 817      Delivery Note Bookings (MIRA, Cash Register)  
 821      Additional Information on Electronic Cash (MIRA, Cash Register)

|   |
|---|
| Modifications Implemented from December 2000 to June 2001 |
|---|

**Code      Modifications**

203, 206, 207, 208, 209, 210, 227, 228, 229, 278, 280, 533  
changed the Header-Text for the function from ...file to ...data

201      In flag values, text for bits bits 1, 2, 14 and 15 modified.

202      changed the descriptions for printout-values, in flag 2 Bit 8 – changed the meaning to “quick serve”

223, 224, 225, 226  
modified the Header-Text for the function

236, 598 added for “sales type” the options if the TAF is deleted or not

230      Text revision, modification of abbreviations

246      modified the Header-Text for the function

249      modified the Header-Text for the function, changed “control” to 0d – write only

251      parameters for “control” changed to 0d - (Lock / Unlock with an automatically Journal-print is not supported)

261      complemented keyboard-types, complements and corrected the Definition tables for function key allocation and speciyl function key allocation

277      complemented in the table for User configuration additional 1 the lines for Bit 6 to 12 – complemented the fiel “reference column for direct-texts on the receipt”

279      increased the Range for “No. of delivery note customers” from 0 - 1000d to 0 - 2000d  
insertet the field „No. of Shortcodes“

280      complemented in the table for Konf.-Flag Bit 3 „list closed delivery notes in the cash register sales report“

500... changed for alle Access Codes from block 500 the first line to “RSP” with values 1,3d an reworked the layout

512      completed missing Header for EC-Cash, copmpleted new Record-Typ 12 for Shortcode

533      copmpleted new Record-Typ 12 for Shortcode

**New Access Codes**

285      Keyboard configuration LP (additional direct-text-keys)

286      not documented – concerns Index-Files for PLU's (Tesco Czechoslovakia)

287      Shortcode Data - Create the Shortcode-Datas (No, Text, Directtext assignment, Quantity)

288      Shortcode Assignment for a PLU - Shortcode Assignment for an article (PLU)

289      Shortcode sales datas – read / delete the sales-datas for the Shortcode-Numbers

816      Booking-additionals Receipt-Repetition

822      Shortcode - Evaluate TAF-Records for the Shortcodes

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| Modifications implemented from June 2001 to April 2002 |
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**Chapter III**

III-A to D the tables with the overall view which access-codes can be used for which device-types and applications have been reworked (Code-Splitting for MIRA-applications, new applications 06, 26 and 07, 27 added)

III-E new table for „Context from Access-Codes and Application-Versions“

III-F new table for „Context form Access-Codes and TransXXX-Version

term changing the translation for the German word “Filialtext” from “Store Name” to “Shop Name”, because the word Store can easily be confused with another meaning of Store, which is to save (as in save a file).

term checking the translation form the German word “Firmtext” as “Organisation Name Text” or “Org Name Txt”

**ID      Changes**

202 values for symbol-keys L2 changed and added for MIRA

209 changed text-length for ingredients with MIRA-2-Flash

233 added the keyboard-types 7 to 9

236 added the sales-reports for service-counter, self-service, pre-packing and inventory reports

277 added in the tables User-Configuration status 1 the values for bit 13 and 14

285, 287, 288, 289  
this access-codes can now also be used with L2-devices

287, 289 value-range for department was changed from 0-9999d to 0d

512 field PLU/WGR-Nr changed to PLU-Nr and added the description-text

517 added the description for the function

518 added the description for the function

519, 520, 521, 522, 523  
separated the access-codes / added the description for the function

596, 598 are up to now only supported for TransL2 and not from the actual versions from TransArc and TransLPe

598 sales type 2 „general sales (TAF is not deleted)“ cancelled (operates only with access-code 236)

817 added the note that Customer-Number and Receipt-Number have only an importance with selection-control 0 or 4

|  |
|--|
| Modifications implemented from April 2002 to November 2002 |
|--|

**Chapter III**

- III-A bis D ⇒ the LPe-applications LExx are not supported form TransArc „a“  
 ⇒ the table which commands can be used with which applications was revised (MIRA-applications splitting, new applications 08, 28)
- III-A ⇒ ID 217 can only be used with the Self-Service applications  
 ⇒ the mark for the applications LM03, LM23 and LF03 was missing for the IDs 246, 249, 250, 251, 252  
 ⇒ the IDs 287, 288 und 289 can't be used with the applications LM03 (not LM23) and LF03  
 ⇒ the new commands 290 and 291 have been added
- III-E ⇒ new and changed items were completed (marked blue)
- III-F ⇒ new table for TransL2 32-Bit  
 ⇒ new coumn for TransArc PCI / new programm-versions from date 31.10.2002

**ID Changes**

- 202 for the Flag User Configuration 2 / Bit 15 „Receipt repetition“ there is a new instruction for the usage  
 207 in the Article-Flag Bit 10-11 is used now for competence-Text and Bit 3, 12-15 for PLU EAN-Code number  
 214 for the EAN-Type is EAN13 and EAN8 complemented / at the fields for the EAN-Code are the values R, S and T complemented (only for the LP 2-Flash applications without LM03 and LM23)
- 215 value for Tare-No changed (1 – 99 for LP-2-Flash applications)
- 217 with TransArc and TransLPe only devices with Self-Service support this ID, with TransL2 the ID will be sent to all other devices in the network
- 219 for LP 2-Flash applications the Text-Length for the Date-Texts changed from 30 – 100 characters
- 269 value for department has to be 1 – 9999d and for Scale-No. 0d
- 270 the values for department changed because of Direct Texts per department
- 271 values for deparment changed to 9999d
- 272 values for department changed to 0 – 9999d and for device to 0 – 64d
- 275 added for the Function-Text „for LP Customer-/ Cash-Reciept“ (difference with ID 291!)
- 277 added at Flag User-Configuration status 1 Bit 15 for the Training-Mode  
 added new field for „Totla Time (Reciept)“  
 deleted „LP/M“ at the Function Text  
 new values for Flag 3 (Logo-Print, Direct-Text and Shortcode per department)  
 value for „No. of PLU with ingredients“(Texts) added
- 285 added Flag value 0 for FIX-key on / off
- 287 value-range for department changed to 0 – 9999d (only for LP)  
 ⇒ depends upon the setting for the Direct-Texts (ID 279 / Flag 3 / Bit 2)  
 the value-range for the Shortcod-No. was changed to 1 – 100d
- 289 the values for department changed because of Direct Texts per department  
 the value-range for the Shortcod-No. was changed to 1 – 100d
- 290 new ID – Scale Configuration / expansion 2 (LP/LM)
- 291 new ID – Load a Label-Logo to LP/M
- 817 new value for Selection Control 5 – delete individual closed delivery notes

new in Chapter „LOG File Entries“ ⇒ Building the Checksum

|  |
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| Modifications implemented from November 2002 to April 2003 |
|--|

**Chapter III**

- III-A to D ⇒ fit a new column for Application LK05 - InfoLine
- III-E ⇒ new and changed items were completed (marked blue)  
 ⇒ new table for LP-InfoLine was completed
- VI ⇒ new Information to give out the version-number and the start-parameters of TransArc and TransLPe

**ID Changes**

- 224 changed field „Special Offer Price“ to „Don't care“  
 changed in block 2 the value-ranges for the filed „departement“ and „PLU Number“ to “0 – 999..d” (using 0 you get with „read all“ all PLU's of a „Special Offer Number“, for „Special Offer Number“ you can't use 0)
- 261 added special function keys 1225 – Price-Level Key 1 and 1226 – Price-Level Key 2
- 277 added Flag-value for „VAT per booking“
- 280 added Flag-value for „VAT per booking“
- 285 added in th flag-table Bit 2 for two Price-Level keys
- 290 corrected thed value für „Length Label Logo“ to 768d
- 292 new ID “Additional for Standard Label-Printparameters (SC, SS, Total, PP1)”
- 512 added Record-Type 13 – Value After Tax per booking
- 533 added Record-Type 13 – Value After Tax per booking

|  |
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| Modifications implemented from April 2003 to July 2003 |
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**Chapter III**

- III-A ⇒ new lines for the ID's 293, 294 and 295
- III-E ⇒ new and changed items were completed (marked blue)
- III-F ⇒ changes for the next release of the TransXXX-versions are implemented

**ID Changes**

- 207 Meaning of Bit 7 from the article flag changed to Quality-Bit (before used for reset of special-offer PLU) (function for Carfour Belgium) – scanning of the quality number from an EAN 128 is possible. The setting can be done in the data-entry mode Code 1\* (04) article additions or with TransXXX command 207 / only with LM06, 26 / LM07, 27 / LM09 / LF03, 05 version 143 and LE06, 07 version 134)
- 253 addition for assignment of label-texts with ASCII-characters used for the 12 characters of the additional article number (Migros-number)
- 260 expansion for the range of the label definition number for 1 to 29
- 293 new ID - addition label types (LP/M) – printing direct texts / label texts
- 294 new ID - create additional label texts (LP/M)
- 295 new ID - addition for label types (LP/M) – positioning 10 logo-extracts

|  |
|--|
| Modifications implemented from July 2003 to May 2004 |
|--|

**Chapter III**

- III-A ⇒ new lines for ID's 2 and 296
- III-E ⇒ new and changed items were completed (marked blue)
- III-F ⇒ Information to TransL2 Version 128

**ID Changes**

- 2 new ID to change the primary configuration (PREPARED)
- 204 Operator numbers 102 to 200 (only for LM06,26 / 07, 27 and LF03 / 05 from version 148 and for LE06 / 07 from version 139)
- 207 Article-Flag / Bit 6
  - changed from „SO-PLU reset“ to „piece article solid / liquid“
- 208 adds „Layout-Flags“
  - Bit 2 ⇒ price per piece
  - Bit 3 ⇒ Input request for number of pieces, fixed weight or filling quantity (only if the PLU is used in PP1-Mode)
  - Bit 4 ⇒ basic price unit
- 261 new special keys
  - 1227 ⇒ Till deposit (only LP/M applications LF03 from Version 144)
  - 1228 ⇒ Till payout (only LP/M applications LF03 from Version 144)
  - 1229 ⇒ Temporary label (only LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137)
  - 1230 ⇒ Matchcode key (only LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137)
- 266 Note for INFOLINE as scale circuit "shunt" / table for 200 command block
- 277 Operator configuration status – new values
  - Bit 1 ⇒ printing of the headline (line 0) for direct and long texts
  - Bit 2 ⇒ rounding to 5 for the ticket amount
  - Bit 3 ⇒ using ticket numbers in the self service (only with LM07, LM27 and LF05)
- 279 Scale Configuration Flag 3 – new values
  - Bit 3 ⇒ with Scanner
  - Bit 4 ⇒ with Shortcode long (comp. Access Code 296)
- 285 new values for the „Flag-table“
  - Bit 2 ⇒ Till deposit key (only LP/M applications LF03 from Version 144)
  - Bit 3 ⇒ Till payout key (only LP/M applications LF03 from version 144)
  - Bit 4 ⇒ Temporary label key (only LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137)
  - Bit 5 ⇒ Matchcode key (only LM06, 26, 07, 27 from V146 / LF 03, 05 from V146 / LE06 from V137)
- 288 new values for 103 and 104 for Shortcode-number (in combination with ID 296)
- 290 new value „number of Operators“ (only for LM06,26 / 07,27 and LF03 / 05 from V148 and for LE06 / 07 from V139)
- 296 new ID for „Shortcode-Text long“ - if this value is coded in an EAN128, it is possible to read the matching Shortcode-Number with a barcode scanner
- 297 new ID for „Info PLU-File“ (only for LM06,26 / 07,27 and LF03 / 05 from V148 and for LE06 / 07 from V139)

|  |
|--|
| Modifications implemented form May 2004 to December 2004 |
|--|

**Chapter III**

- III-A ⇒ new line for ID 298 / instruction adjusted  
 III-E ⇒ new and changed items were completed (marked blue)  
 III-F ⇒ Information to TransL2 Version 130 – CRC32-Checksum used with Start-Parameter X1

**ID Changes**

- 239 ⇒ added Prozedure 7 to 9 (were missing in the old docu-version)  
 ⇒ added new Prozedures 10 and 11, which support the CRC32-Checksum for the TransL2-communication (avoids missing pairs of numbers in sent IDs / up to now the checksum was built with XOR, only for LM05/25/06/26/07/27 and for LF03/05 from V150, for LM08,28 from V144 and for Le05/06/07 from V141)  
 243 new value 4 for the standard label definition of the INET-Mode / label-definition number 4 (only for LM06,26,07,27 from V150 / LF03,05 from V150 / LE06,07 from V141)  
 261 new special function key for the INET-Mode (only for LM06,26,07,27 from V150 / LF03,05 from V150 / LE06,07 from V141)  
 277 added values for table „User config. status 2“  
     Bit 4 ⇒ percentage PLU-Tare (only for LM06/26/07/27 from V 149, LF03/05 from V149 and Le06/07 from V 140)  
     Bit 5 ⇒ basic proce Hand +/- per department (only for LM06/26 from V149, LF05 from V149 and Le06 from V140)  
     Bit 6 ⇒ header-text on turnover reports (only for LM06/26/07/27 from V 150, LF03/05 form V150 and Le06/07 from V 141)  
 279 added values in table „scale configuration Flag 3“  
     Bit 5 ⇒ with INET-Mode (changed PP1-Mode / with each PLU change has to be difined how many labels have to printed for each selected PLU / nur bei LM06/26/07/27 ab V 150, LF03/05 ab V150 und Le06/07 ab V 141)  
     Bit 6 ⇒ with INET-Mode turn-over (are booked to operator 102 / only for LM06/26/07/27 from V150, LF03/05 from V150 and Le06/07 from V141)  
 285 added value to „Flag-table“  
     Bit 6 ⇒ INET-Mode key (only with LM06, 26, 07, 27 from V150 / LF 03, 05 from V150 / LE06 from V141)  
 288 new shortcode-number 106 „Shortcode - feed 20 characters text or number “ (for MT-E customer Caprabo, no turn-overs / only for LM06,26, 07,27 from V150 / LF03,05 from V150 and LE06, 07 from V141)  
 new table for „Artikel-Flag“ (only for LM06,26,07,27 form V150 / LF 03,05 ab V150 / LE06,07 ab V141)  
     Bit 0 ⇒ PLU-Tare PP1-Mode  
     Bit 1 ⇒ PLU-Tare Selling-Mode  
     Bit 2 ⇒ PLU-Tare Inventory-Mode  
     Bit 3 ⇒ PLU-Tare SelfService-Mode  
     Bit 4 ⇒ PLU-Tare INET-Mode  
 292 added new label definition number - Standard-label definition for the INET-Mode / Additional for Label-Definition number 4 (only for LM06,26,07,27 from V150 / LF03,05 from V150 / LE06,07 from V141)  
 298 new ID - Allocating Direct Texts to PLUs (like ID 269, additional with line 101 (write text manual) and 102 (not text allowed / only for LL03,33 from version 438)

**Chapter VI**

TransL2 16-Bit ⇒ new Startparameter „-X“ to select the CRC32 or the XOR Checksum

|   |
|---|
| Modifications implemented form December 2004 to December 2007 |
|---|

**Chapter III**

- III-A ⇒ deleted column for L2  
 ⇒ added columns vor bC and bPro  
 ⇒ added new lines for commands 299 to 306 and adapted the hint text  
 III-E ⇒ deleted column for L2  
 ⇒ added columns vor bC and bPro  
 ⇒ new and changed items were completed (marked blue)  
 III-F ⇒ added information to TransL2 version 131  
 ⇒ added information to TransL2-32Bit version 133, 134 and 135  
 ⇒ added information to TransArc-ISA 16Bit to V 1.25, TransArc-ISA 32Bit to V 1.06 and TransArc-PCI to V 1.04  
 ⇒ added information to TransLPe version 1.09

**ID Änderungen**

- 207 ⇒ appendix for Staggered Limit concerning a Gratis-Quantity  
 208 ⇒ added date flag values for packing date (101 and 110) und for date format  
     ⇒ only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC/bPro from V103  
 209 ⇒ increased number of the ingredient blocks for LP-applications up to 4 blocks (up to 1800 characters)  
     ⇒ only for LM06, 26, 07, 27 from V 154 / LF03, 05 from V155 / Le06, 07 from V146)  
 209 ⇒ increased number of the ingredient blocks for bC/bPro applications up to 8 blocks (up to 3600 characters)  
     ⇒ only for LM06, 26, 07, 27 from V 154 / LF03, 05 from V155 / Le06, 07 from V146, , bC/bPro from V111

- 236 ⇒ Turn over of inventory sales can be deleted per department  
⇒ *only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC/bPro from V113*
- 243 ⇒ added label definition number 5d for REWRAP labels  
⇒ added date flag values for packing date (101 and 110) und for date format  
⇒ *only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC/bPro from V113*
- 261 ⇒ added bc/bPro keyboard types  
⇒ added Sales mode key (1235 / 4D3h)  
⇒ added Rewrap mode key (1236 / 4D3h)  
⇒ added Inventory mode key (1237 / 4D3h)  
⇒ *only for LM06, 26, 07, 27 from V157 / LF 03, 05 from V157 / LE06, 07 from V148, bC/bPro from V111*
- 270 ⇒ added advice to command 301 (define direct text till number 299)
- 277 ⇒ Timer Error Cash register open  
⇒ *only for LM06/26/07/27 from V 144, LF03/05 from V144, Le06/07 from V 135*  
⇒ percent Tare-Values from Tare number to Tare number  
⇒ *only for LM06/26/07/27 from V 149, LF03/05 from V149, Le06/07 from V 140*
- 279 ⇒ added for Flag 3 Bit 7 – range for special Shortcode number from 101 – 120 or 231 - 250  
⇒ changed ingredient text length to 1800  
⇒ changed number of direct text lines to 230  
⇒ changed number of shortcodes to 230  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155 and Le06/07 from V 146*  
⇒ textlength for ingredients till 3600  
⇒ *only bc/bPro from V111*
- 285 ⇒ added for the Flag Bit 7 for Service Counter Mode  
⇒ *only for LM06, 26, 07, 27 from V 154 / LF03, 05 from V154 / Le06, 07 from V145*  
⇒ added for the Flag Bit 8 and 9 for Rewrap and Inventory Mode  
⇒ *only for LM06, 26, 07, 27 from V157 / LF 03, 05 from V157 / LE06, 07 from V148*
- 287 ⇒ Bereich für Shortcode-Nr auf 230 erhöht  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 288 ⇒ increased the range for the Shortcode-Number to 236  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 289 ⇒ increased the range for the Shortcode-Number to 230  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 296 ⇒ increased the range for the Shortcode-Number to 230  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 298 ⇒ access code deleted, because it can only be used for L2-applications LL03 and LL33 from V 438
- 299 ⇒ new command / Expansion for staggered block price – additional staggered block prices 3, 4 and 5  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V 146 and LC03/05 from V 112*
- 300 ⇒ new command / PLU-allocation for direct text no., shortcode no., staggered price 3,4,5 to PLU's  
can replace Access Code 269, 288 and 299  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 301 ⇒ new command / Direct Text Table (per line)– can replace Access Code 270  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 302 ⇒ new command / Shortcode data with direct text 0 – 229 / can replace Access Code 287  
⇒ *only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V146, bC from V114*
- 305 ⇒ new command / Request in which mode the scale is located currently  
⇒ *only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC from V112*
- 306 ⇒ new command / masking for code menu 789 / extract code-menu 1 - data maintenance  
⇒ *only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC from V114*
- 309 ⇒ new access code for Event Engine format  
⇒ *only for bC/bPro from V111, Le from Vxx*
- 404 ⇒ added range for operator number 102 to 200  
⇒ *only for LM06/26/07/27 from V 154, LF03/05 from V154, Le06/07 from V 145*
- 512 ⇒ added range for Shortcode-Number to 230  
⇒ *230d only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V 146, bC from V114*
- 533 ⇒ added range for Shortcode-Number to 230  
⇒ *230d only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V 146, bC from V114*
- 598 ⇒ inventory sales can be deleted per department  
⇒ *only for LM06/26/07/27 from V 157, LF03/05 from V157, Le06/07 from V 148, bC from V114*
- 533 ⇒ added range for Shortcode-Number to 230  
⇒ *230d only for LM06/26/07/27 from V 155, LF03/05 from V155, Le06/07 from V 146, bC from V114*

## Chapter VI

- ⇒ Chapter „TransL2 (32-Bit) Setup Parameters“ updated

## VI Appendix - Setup Parameters, Log files and Error Messages

### TransL2 (16-Bit) Setup Parameters

The parameters listed are saved in the TRANSL2.CFG file. Any parameters not listed will be automatically extracted from the TRANSL2.CFG file when the TransL2 program is started. **If the TRANSL2.CFG file is not placed in the TransL2 directory, default values are automatically assumed.**

| Param. | Name                       | Range   | Default Value                 | Remarks   |
|--------|----------------------------|---|-------------------------------|---|
| -c     | <C>hannel                  | COM1 /COM2  | COM1                          |   |
| -b     | <B>audrate                 | 1 / 19200   | 9600                          |   |
| -d     | <D>atabits                 | 7 / 8   | 8                             |   |
| -p     | <P>arity                   | n:no, e: even, o: odd                                   | n                             |   |
| -s     | <S>topbits1 / 2            | 1   |                               |   |
| -t     | <T>imeout [sec.]           | 1 to 255  | 30                            | On a PC, about 10 times that of the setting on channel A on the scale   |
| -x     | e<X>tend. CRC32            | 0: off / 1: on  | 0: off<br>(old XOR Checksum)  | - form TransL2 version 130 (30.09.2004)<br>- needs at the LP-scale Prozedure 10 (analog Prozedur 0) or 11 (analog Prozedure 9)  |
| -l     | <L>ogfile                  | 0: off / 1: on<br><filename>                            | off / transl2.log             | Example: -lolist.log  |
| -z     | Number of lines in Logfile | 1 to ...  | 99                            | Limited only by file size   |
| -f     | config-<F>ile              | <filename>  | transl2.cfg                   | Example: -fmodem.cfg  |
| -m     | <M>odem-linitstring        |   | AT &D2 S0=0 E0 Q0 V1          | Initialise Modem  |
| -a     | Modem Di<A>lstring         |   | ATDP>W074311 4358             | Dial the number of the other station  |
| -u     | Modem Hang<U>pstring       |   | ATH                           | Hang-up upon completion of data transfer  |
| -r     | modem-<R>econnect          | 0: enable / 1: disable                                  | 0=enable                      | -r1 ⇒ Hang-up string is not automatically sent as soon as processing of Inputfile is complete<br>⇒ <b>Telephone connection should be terminated using a TransL2 command or manually</b> |
| -i     | <I>nputfile                |   |                               | File with COMMAND entries, used instead of stdin  |
| -o     | <O>utputfile               |   |                               | File with RESOPNSE entries, used instead of stdout  |
| -w     | verbose mode               |   |                               | Displays TransL2 status information in line [w] / only for parameter -i, -o / -w0 ⇒ not for status lines  |
| -n     | bi<N>ary bitmap            | -n Dep Dev-Nr File                                      |                               | Only for L2 for the sending of Logos to the label printer. To be used separately.   |
| -e     | <E>nforce-file             | 0: no / 1: yes  | 0: no                         | -e1 ⇒ TransL2 uses the In/ Outputfile contained in the TransL2.cfg file / <b>stdin, stdout and Terminal mode are not available</b>  |
| -q     |                            | <filename>  |                               | Use of a simplified protocol file (Bizerba structure) / these parameters are not compatible with all TransL2-versions   |
| -k     | Transferscope              | 1: PLU incl. Fix Key /<br>0: PLU without Fix Key update | 0: PLU without Fix Key update | Only for the T_L2_LI.EXE program  |

If TransL2 is not started by STDIN, STDOUT or an In/Output file but from a DOS command line, the program then runs in direct Terminal Mode. In this mode, the program can be ended by simply inputting a ^Z (CNTRL Z).

If COMMANDS to be used are stored in a file, the name of the file can be entered in the command line, after TransL2, with the character > (STDIN). The REPOSE from the scales can then be entered into a file using the character < (STDOUT). Instead of using STDIN and STDOUT, it's possible to use the -i and -o parameters (input and output file).

## Status Line for TransL2 (16-Bit) / Parameter -wxx

If TransL2 (16-Bit) is run using input and output files, the following status line can be displayed using the parameter – wxx, where xx is the line:

|         |         |      |   |     |   |    |    |    |   |    |   |   |   |
|---------|---------|------|---|-----|---|----|----|----|---|----|---|---|---|
| METTLER | TransL2 | 1.24 | H | 512 | @ | #M | 15 | #B | 7 | #W | 3 | Q | 0 |
|---------|---------|------|---|-----|---|----|----|----|---|----|---|---|---|

The contents of the status line fields are interpreted as follows:

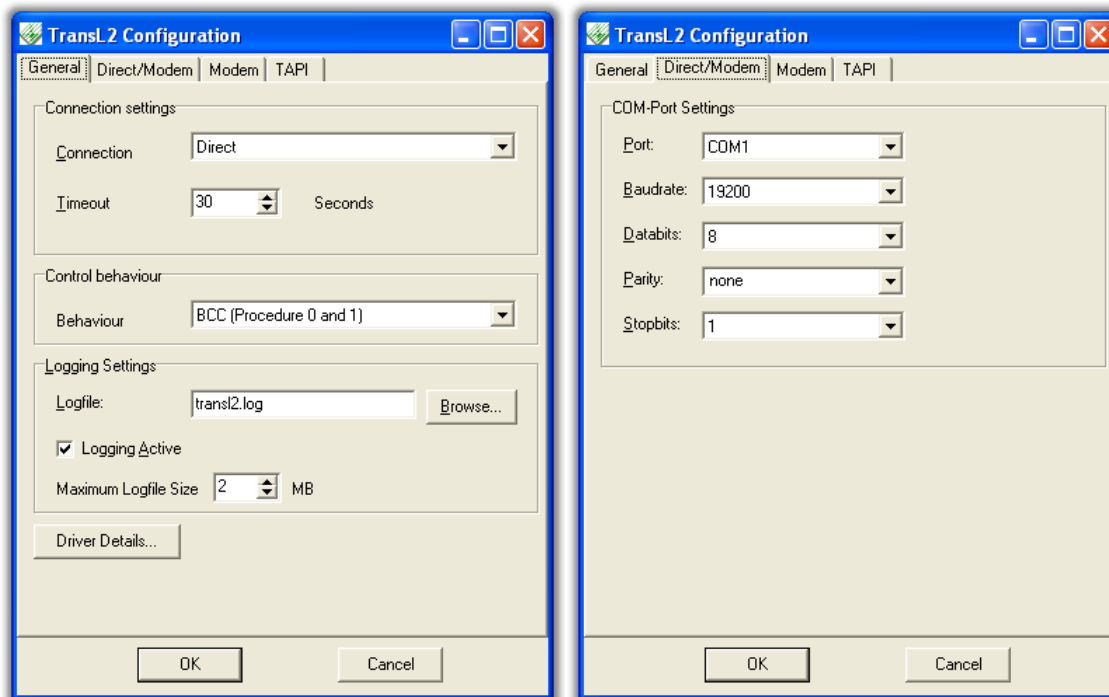
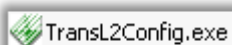
- TransL2 1.24           ⇒ TransL2 Version
- H 512                 ⇒ The Access Code currently being used (in this case 512)
- #M xxxxxx   ⇒ Number of command lines in <<INFILE>>
- #B xxxxxx   ⇒ Number of response lines in <<OUTFILE>>
- #W xxxxxx   ⇒ Timeout of the scale sent (see LOG entry r: |□32E-3□ ...; e.g. in Access Code 200)
- Q x                 ⇒ Evaluation of all STATUS byte values at the end of the data transfer
  - 0   ⇒ all response entries have Status 0
  - 99 ⇒ at least one response entry has a non-zero Status

To stop displaying the Status Line, start TransL2 with the Parameter –w0

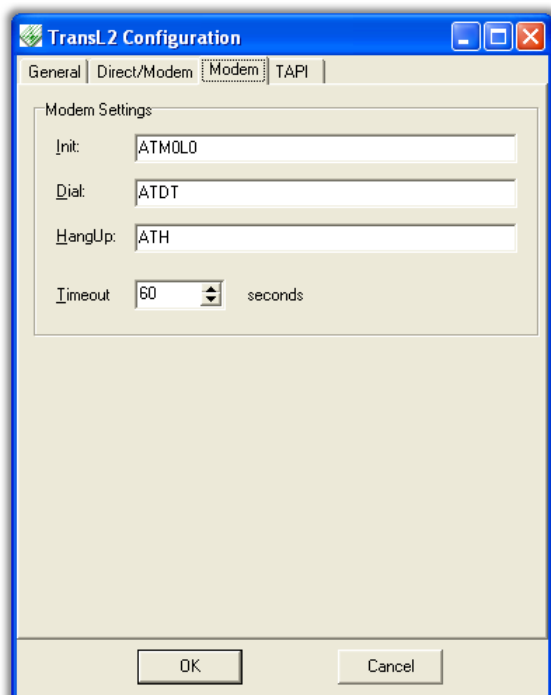


## TransL2 (32-Bit) Setup Parameters

TransL2 (32-Bit) can be installed into any directory by running SETUP.EXE found on the installation disk. After installation, the directory contains the programs TransL2.EXE and TransL2Config.exe (with older version Setup.exe). Running TransL2Config.exe allows the TransL2 (32-Bit) setup parameters to be specified.

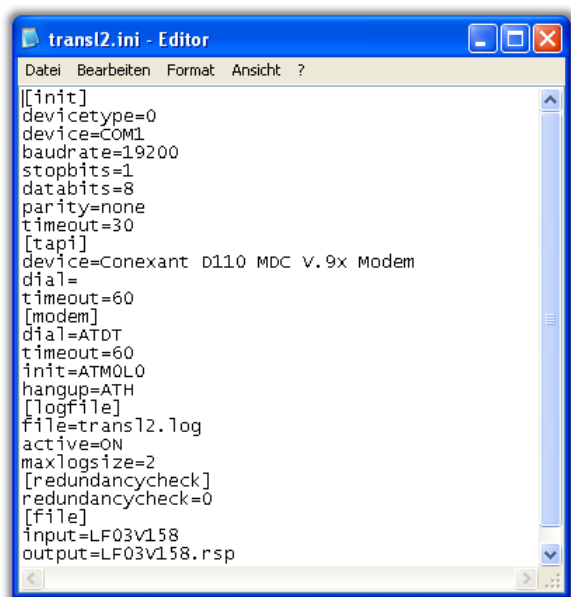


- the value for the Timeout must be 10 times higher than this from the scale interface– Standard scale 3 / PC 30 seconds
- the settings for the Control behaviour accord to the procedure of the scale interface and must be consistent with the settings for Channel A (B only for L2) of the scale interface (service mode item 26).



- **Setting modem parameters**
- to activate this modem-strings TransL2 (32 Bit) has to be started with parameter “-m”

All parameters set are saved in the **TRANSL2.INI file in the Windows root directory**.  
With the above parameter settings, the contents of this file are as follows:



If TransL2 is not started by STDIN, STDOUT or an In/Output file but from a DOS command line, the program then runs in direct Terminal Mode. In this mode, the program can be ended by simply inputting a ^Z (CNTRL Z).

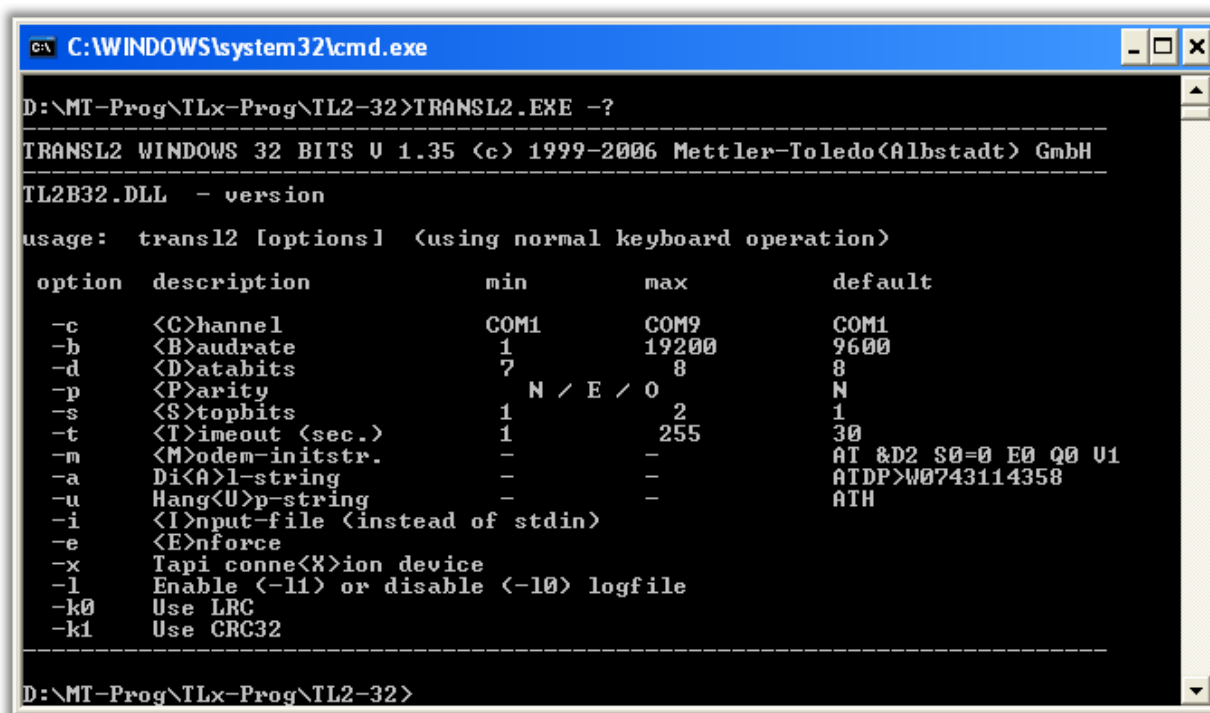
If the COMMANDS to be used are stored in a file, the name of the file can be entered in the command line, after TransL2, with the character > (STDIN). The RESPONSE from scales can then be entered into a file using the character < (STDOUT). Instead of using STDIN and STDOUT, it's possible to use the -i and -o parameters (input and output file).

**Setup parameters can be entered directly into the TRANSL2.INI file residing in the Windows root directory (i.e. without the need to use TRANSL2CONFIG.EXE). This allows the following parameter values to be entered:**

| Param. | Name                    | Range                                     | Default Value        | Remarks  |
|--------|-------------------------|---|----------------------|--|
| -c     | <C>hannel               | COM1 /COM2                                | COM1                 |  |
| -b     | <B>audrate              | 1 / 19200                                 | 9600                 |  |
| -d     | <D>atabits              | 7 / 8                                     | 8                    |  |
| -p     | <P>arity                | n:no, e: even, o: odd                     | n                    |  |
| -s     | <S>topbits1 / 2         | 1   |                      |  |
| -t     | <T>imeout [sec.]        | 1 to 255                                  | 30                   | On a PC, about 10 times that of the setting on channel A on the scale  |
| -m     | <M>odem-linitstring     |   | AT &D2 S0=0 E0 Q0 V1 | Initialise Modem   |
| -a     | Modem Di<A>lstring      |   | ATDP>W074311 4358    | Dial the number of the other station   |
| -u     | Modem Hang<U>pstring    |   | ATH                  | Hang-up upon completion of data transfer   |
| -i     | <I>nputfile             |   |                      | File with COMMAND entries, used instead of stdin   |
| -o     | <O>utputfile            |   |                      | File with RESPONSE entries, used instead of stdout   |
| -e     | <E>nforce-file          | 0: no / 1: yes                            | 0: no                | -e1 ⇒ TransL2 uses the In/ Outputfile contained in the TransL2.cfg file / <b>stdin, stdout and Terminal mode are not available</b> |
| -x     | Tapi conne<X>ion device |   |                      |  |
| -l     | logfile                 | 0 ⇒ disable logfile<br>1 ⇒ enable logfile |                      | Logfile ein- / ausschalten   |
| -k     | Control behaviour       | 0 ⇒ Use LRC<br>1 ⇒ Use CRC32              | 0 ⇒ Use LRC          | LRC ⇒ entspricht Prozedur 0 der Waage<br>CRC32 ⇒ entspricht Prozedur 10 der Waage  |

## Give notice about the Version-number and the Start-Parameters of TransL2 32-Bit in a DOS-Console

- call out by the command-line TransL2 -?



```

C:\WINDOWS\system32\cmd.exe
D:\MT-Prog\TLx-Prog\TL2-32>TRANSL2.EXE -?
-----
TRANSL2 WINDOWS 32 BITS U 1.35 (c) 1999-2006 Mettler-Toledo(Albstadt) GmbH
TL2B32.DLL - version
usage: transl2 [options] (using normal keyboard operation)

  option  description                min      max      default
  -c      <C>hannel                  COM1     COM9     COM1
  -b      <B>audrate                  1        19200    9600
  -d      <D>atabits                   7         8        8
  -p      <P>arity                     N / E / 0  N
  -s      <S>topbits                   1         2        1
  -t      <T>imeout (sec.)             1        255     30
  -m      <M>odem-initstr.             -         -
  -a      Di<A>l-string               -         -
  -u      Hang<U>p-string             -         -
  -i      <I>nput-file (instead of stdin)
  -e      <E>nforce
  -x      Tapi conne<X>ion device
  -l      Enable (-l1) or disable (-l0) logfile
  -k0     Use LRC
  -k1     Use CRC32
-----
D:\MT-Prog\TLx-Prog\TL2-32>
  
```

## Setup Parameters for TransArc (only for .exe and not for .dll)

The TransArc program can only be used when a Mettler-Toledo ArcNet-Card has been installed in an ISA slot of the respective PC. A valid TranArc license number must exist on the card.

To use the card with 32-bit operating systems, the card should be registered in the registry using the TARCINST program. More information on installing and configuring the ArcNet Card can be found in the installation instructions included in the delivery.

The parameters listed are saved in the TRANSxxx.CFG file. Any parameters not listed will be automatically extracted from the TRANSxxx.CFG file when the TransARC program is run.

If the TRANSxxx.CFG file is not placed in the Transxxx directory, default values are automatically assumed.

| Param. | Name                        | Range                        | Default Value     | Remarks   |
|--------|-----------------------------|------------------------------|-------------------|---|
| -l     | <L>ogfile                   | 0: off / 1: on<br><filename> | off / transl2.log | Example: -l0list.log  |
| -z     | Number of lines in Log file | 1 to ...                     | 99                | Limited only by file size   |
| -f     | config-<F>ile               | <filename>                   | transl2.cfg       | Example: -fmodem.cfg  |
| -i     | <I>nputfile                 |                              |                   | File with COMMAND entries, used instead of stdin  |
| -o     | <O>utputfile                |                              |                   | File with RESOPNSE entries, used instead of stdout  |
| -w     | verbose mode                |                              |                   | Displays TransL2 status information in line [w] / only for Param. -i, -o / -w0 ⇨ not for status lines |
| -s     | TafSort                     | 0: off / 1: on               |                   | Exclusively for Mitreva software  |

**TransArc and TransLPe cannot be used in Terminal Mode.** Hence, COMMANDS must be saved in a file, where the file name is entered after Transxxx with the > (STDIN) character or the -ixxx parameter in the command line. The REPONSE from scales must similarly be saved to a file, using the < (STDOUT) character or the -oxxx Parameter.

### Give notice about the Version-number and the Start-Parameters of TransArc in a DOS-Console

- call out by the command-line TRANSARC -?

```

C:\WINDOWS\System32\cmd.exe
E:\Daten\LW-PROGR\lw-kom\TLx-Prog\TransArc>transarc -?
02901 [INPUT-FILE-ERR]

*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***
TransArc LK06-0-0110 (C) 1997 METTLER-TOLEDO LSY/LB 18.03.97
usage: transarc [options] (from <stdin> to <stdout>)

opt.   name                                     default
-----+-----+-----+-----+-----+
-s      <S>ort (TAF) (0: off; 1: on)           1
-l      <L>ogfile (0: off) (-z size)            transarc.log
-f      config-<F>ile                          transarc.cfg
-i      <I>nput-file (instead of stdin)         } (or -<E>nforce
-o      <O>utput-file (instead of stdout)       } fileusage )
-w      verbose mode (tell <W>hat's done) only with -i/o !
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

E:\Daten\LW-PROGR\lw-kom\TLx-Prog\TransArc>_

```

## Configuration of TransLPe Using SETUP.EXE

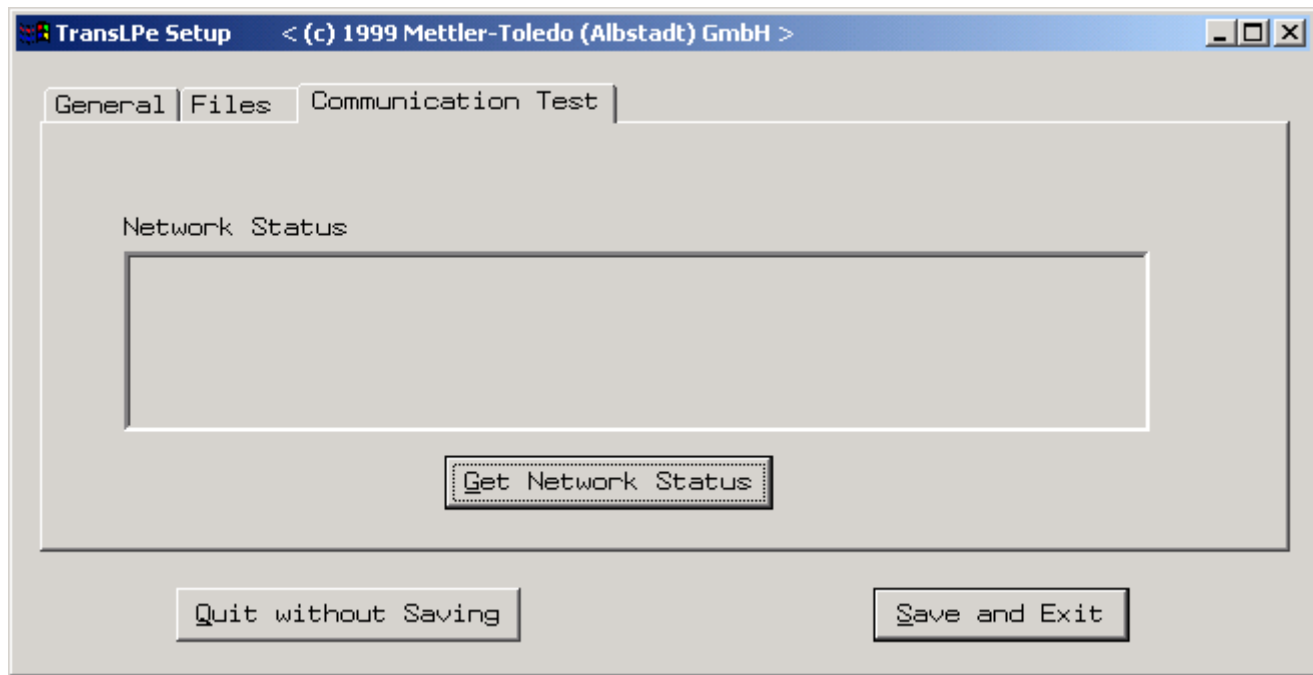
The TransLPe directory contains a SETUP.EXE file, which allows TransLPe to be configured using the below listed masks. Parameters entered are saved in the files TRETHNET.CFG and TRETHNET.CFG.

- IP-Address ⇒ IP-OFFSET – the IP address of the MIRAE network (without a leading 0!)
- Error Log file ⇒ Error – activate log file
- Transaction Log file ⇒ Activate transaction log file for Access Code 512
- IP-Range ⇒ Range from IP-OFFSET to highest scale number (IP-Range for Trethnet = IP-OFFSET + IP-Range)
- Report Timeout ⇒ Maximum time allocated for the retrieval of reports
- Send Timeout ⇒ Maximum time allocated for an ACK from the scales in response to command strings from PC

*As soon as one of the two Log files becomes active, a DEBUG window is displayed while data is transferred!*

- Input File ⇒ File containing command strings
- Output-File ⇒ File in which response strings are saved
- Logfile ⇒ The file name of the log file
- Line Count of Logf. ⇒ maximum number of lines stored in the log file
- Logfile tick box ⇒ Log file activate / de-activate

- **Enforce File Usage** ⇒ Enforces the use of input and output files



- **Get Network Status** ⇒ Requests the network status (Access Code 5) to test communication

With the above settings, the configuration files have the following content:

| trethnet.cfn                          | trethnet.cfg                       |
|---------------------------------------|------------------------------------|
| ; *** TransEthernet Configuration *** | ; *** TransEthernet File Setup *** |
| -I192.168.64.200                      | -l1 trethnet.log                   |
| -X2                                   | -z999                              |
| -T55000                               | -ic5                               |
| -S1                                   | -oc5.rsp                           |
| -R63                                  | -e1                                |

**Give notice about the Version-number and the Start-Parameters of TransLPe in a DOS-Console**

- call out by the command-line TRETHNET -?

```

C:\WINDOWS\System32\cmd.exe

E:\Daten\LW-PROGR\lw-kom\TLx-Prog\TransLPe>trethnet -?

-----
TransLPe LK16-0-0105 (c)1999-02 METTLER-TOLEDO (Albstadt) GmbH
usage: trethnet option1 [option2] ..

opt.   name
-----
-?      show help screen
-f      config-<F>ile (instead of trethnet.cfg)
-i      <I>nput-file
-o      <O>utput-file
-r      <R>econnect 1 = enabled 0 = disabled!
-----
E:\Daten\LW-PROGR\lw-kom\TLx-Prog\TransLPe>_

```

## Direct Command Functions for TransArc and TransLPe DLLs

The following functions have been written for use with the DLL versions of the TransArc and TransLPe programs (v1.02 onwards). The functions correspond with functions used internally in TransArc and TransLPe.

The functions are listed below:

| TransArc      | TransLPe       | Remarks   |
|---------------|----------------|---|
| OpenArcNet()  | OpenEthNet(),  | <ul style="list-style-type: none"> <li>parameter input is not supported</li> <li>In order to open the port, the TRXXXXXX.CFN file must be located as described in the TransArc documentation.</li> <li>returns an integer value<br/>Value 0 ⇒ no error<br/>Value -3 ⇒ no communication possible<br/>(in this case, close() is executed automatically)<br/>Value -7 ⇒ license violation</li> </ul> |
| CloseArcNet() | CloseEthNet(), | <ul style="list-style-type: none"> <li>parameter input is not supported</li> <li>no response returned</li> <li>used to close the communications ports</li> </ul>  |
| TarcWrite()   | EthWrite() and | <ul style="list-style-type: none"> <li>uses a string pointer as parameter, which refers to the COMMAND string used</li> <li>returns an integer value<br/>Value 1 ⇒ Response (XXXread()) expected<br/>Value 0 ⇒ Write procedure error</li> </ul>   |
| TarcRead()    | EthRead().     | <ul style="list-style-type: none"> <li>uses a string pointer as parameter, which refers to the expected response string</li> <li>the string has to be long enough to be able to receive the expected response (corresponding to this documentation)</li> <li>returns an integer value<br/>Value 0 ⇒ Read procedure was successful<br/>Value 201 ⇒ Read procedure error</li> </ul>                 |

The use of TransArc and TransLPe with I/O files is recommended, particularly for retrieving reports.

With direct calls, the calling application has to continue receiving responses (Read() ) until the last record from TransArc or TransLPe has been sent (e.g. 10051200060000000255).

A C-language Example:

```

...
char  szTx[1024];
int   nRet;
...
if ((nRet = OpenxxxNet()) != 0)
    return(nRet);
...
if (xxxWrite("0000050000000000") == 1)
    nRet = xxxRead(szTx);
...
ClosexxxNet();
...

```

## LOG FILE Entries

The following table describes typical **TransL2-Log file** (transl2.log) entries.

| Entry   | Description  |
|---|--|
| curr. line: [ 300]  | returns the line number of the most recent LOG FILE entry (using ring buffer / First in First out)   |
| COM1 opened on Mon Jul 05 15:50:02 1999   | COMx-Port was opened at this time and date   |
| param.: 9600 8 N 1 [0]  | interface parameter, used by Transxxx  |
| MDM {AT&FE0}<br>MDM [  0]<br>MDM [OK  2]<br>MDM [  3]<br><br>MDM {atx3dt0,,0209137151}<br>MDM [  0] ...<br>MDM [CONNECT 9600  3]<br>MDM [  4] ... | <b>when transferring data using a modem</b> (only for TransL2), the connection procedure is as follows:<br><br>MDM {AT&FE0}           ⇒ Initialisation<br>MDM [  0]                ⇒ Counter<br>MDM [OK  2]             ⇒ Init. o.k.<br>MDM {atx3dt0,,0209137151}     Dial string<br>MDM [CONNECT 9600  3]Line active  |
| w: [ 000005000000000000 {C: 6}  l: <19   0>   | The command line is made up as follows:<br><br>w:                      ⇒ write: (command)<br>                        ⇒ STX (StartOfText)<br>0000050000000000     ⇒ ,Access Code command<br>                        ⇒ ETX  (EndOfText)<br>{C: 6}                 ⇒ Checksum as number<br>l: <19                 ⇒ Length < ... character<br>  0>                    ⇒ Error code  |
| r: [ 000005000000000000.... {C: 6}  e: <0> k: <0>   | The response line is made up as follows:<br><br>r:                      ⇒ read: (response)<br>                        ⇒ STX (StartOfText)<br>0000050000000000.... ⇒ Access Code response<br>                        ⇒ ETX  (EndOfText)<br>{C: 6}                 ⇒ Checksum as number<br>e: <0>                 ⇒ Error code <0> no error; otherwise corresponding to the Error-Definitions<br>k: <0>                 ⇒ Keyboard<br><0> disabled further responses follow<br><1> enabled; last response received |
| r:  t[E 216][rc 0 0]z ... [E 216][rc 0 0]  e: <216> k: <0/1>  | The response line is made up as follows:<br><br>r:              ⇒ read: (response)<br>t            ⇒ randomly received character<br>[E 216]       ⇒ error 216<br>[rc 0 0]      ⇒ ready for check byte<br>z...          ⇒ randomly received character<br>[E 216]       ⇒ error 216<br>[rc 0 0]      ⇒ ready for check byte<br>e: <216>      ⇒ error code <216> see Error Codes<br>k: <0/1>      ⇒ Keyboard enabled<br><0> disabled further responses follow<br><1> enabled; last response received                |
| r: [ 32E-3 {C: 77}  e: <0> k: <0>   | Timeout counter ⇒ Scale message that the data server task is still preparing the response only for TransL2 / TransL2-32)   |
| COM1 closed at Mon Jul 05 15:50:49 1999   | COMx port was closed at this time and date   |

### Building the Checksum:

Command Format is: STX0002345.....ETX

Checksumme is: XOR-connection from all characters behind the STX including the ETX

The following entries are logged in a **TransArc-Log file** (transarc.log):

- **TransArc opened at Tue Nov 21 16:39:43 2000**
- **TransArc closed at Tue Nov 21 16:39:44 2000**
- **In the 16-bit .exe version, records still contain "w: ..." or "r: ..." as in TransL2, however without STX, ETX and BCC.**



## Error Codes

All error codes begin with 02 followed by the error number

| Error Coder | Symbol     | Meaning             | Example  |
|-------------|------------|---------------------|--|
| 02 201      | E_RD       | read                | Scale did not respond with the reply record within the expected timeout, perhaps the interface-timeouts have to be changed (default is scale 3 and PC 30 sec.) |
| 02 202      | E_RDT      | read timeout        | Scale answered with ACK ('thanks'), but it didn't send the response in the expected time   |
| 02 203      | E_OVR      | buffer overflow     |  |
| 02 204      | E_CHK      | crc-chk             | Check sum error, leading to lost character or bit corruption ⇒unreliable connection?   |
| 02 205      | E_OPN      | open dev            | Interface cannot be opened ⇒ Is another process blocking the specified COM-Port?   |
| 02 206      | E_WR       | write               | Scale does not send an ACK ('acknowledge') ⇒ Hardware, Parity, Baud rate?  |
| 02 207      | E_WRT      | write timeout       | PC can't send the command via the Interface ⇒ operating-system, COM-Prot-settings, COM-Prot used?  |
| 02 208      | E_EOT      | end of transmission | Check sum error, leading to lost character or bit corruption ⇒unreliable connection?   |
| 02 209      | E_NWR      | unable to write     |  |
| 02 210      | E_NAK      |                     | Scale detected an error in a record and requests a re-transmission (maximum 3 x before aborting)   |
| 02 211      | E_CLO      | close dev           |  |
| 02 212      | E_STB      |                     |  |
| 02 213      | E_I OG     | ioctl g             |  |
| 02 214      | E_I OS     | ioctl s             |  |
| 02 215      | E_ LOG     | logfile open        |  |
| 02 216      | E_ STX     | start for text      | The expected did not arrive - buffer not cleared; Wait for scale RS232 reset (approx. 1 min.)  |
| 02 300      | E_ INF     |                     |  |
| 02 901      | E_ CDO     | command line err    |  |
| 02 902      | E_ USR     | user interrupt      |  |
| 02 E-1      | syntax-err | syntax error        | E.g. Record length, department number, scale number  |
| 02 E-4      | RDALL BUSY |                     |  |



## Glossary of Terms and Concepts

### Account Customer (German: **Lieferscheinkunde**)

Typically a large customer that does not pay upon collecting goods. Instead, the customer receives an invoice which states all items bought and the amount of money owed. The customer can then settle the payment later (e.g. by bank credit transfer, direct debit, etc.).

### Advertising Text (German: **Werbetexte**)

Text that is entered stored under an Advertising Text Number and can be printed out on labels.

### Article Group (German: **Warengruppe**)

Numbered sub-folders stored under Departments. Article groups contain PLUs.

### Basket Number (German: **Körbchennummer**)

Typically used in German butcher shops. A number assigned to a customer who accumulates items from different counters and pays for them at one till by handing in Checkout Slips. Note, a basket is not always used. (see Checkout Slip).

### Blocked PLU

A seasonal PLU item that can be seasonally blocked (i.e. be made inaccessible). This feature prevents an operator from wrongly calling up a PLU item that is no longer in season (i.e. currently not sold).

### Block Pricing (German: **Mengenpreis**)

Block Pricing allows a User to enter staggered prices that are additional to the normal base price or piece price of a given PLU article.

The prices are referred to as Block Prices because they only apply within blocks of weight values or ranges of piece quantities (depending on whether the PLU article is Weightwise or Piecewise).

Hence, using two Block Prices involves entering a lower limit (the weight or no. of pieces at which the first Block Price begins to apply), a second limit (the weight or no. of pieces at which the 2<sup>nd</sup> Block Price begins to apply) and the Block Prices themselves.

Alternatively, gratis amounts of the article can be given away when a certain lower limit of weight or no. of pieces is exceeded. E.g. above 800g, 100g is given away gratis.

Example 1. Staggered Block Pricing.

A butcher sells ground beef at a price of 15,00 DM per Kg. He decides to introduce a block price of 10,00 DM per Kg for the weight range 500g to 800g, and to introduce a 2<sup>nd</sup> block price of 8,00 DM per Kg for amounts above 800g.

So, A customer buying 400g will pay  $0.4 \times 15,00 \text{ DM} = 6,00 \text{ DM}$

A customer buying 650g will pay  $0.65 \times 10,00 \text{ DM} = 6,50 \text{ DM}$

A customer buying 900g will pay  $0.9 \times 8,00 \text{ DM} = 7,20 \text{ DM}$ .

Example 2. Gratis Block Pricing

The same butcher changes his mind and decides to use a gratis Block Pricing for the same article. Being generous, he would like every customer that buys more than 500g of his ground beef to get 200g gratis.

So, A customer buying 400g will pay  $0.4 \times 15,00 \text{ DM} = 6,00 \text{ DM}$

A customer buying 650g will pay the same as if he was buying 500g,  $0.5 \times 15,00 \text{ DM} = 6,50 \text{ DM}$

A customer buying 800g will actually pay for 600g, i.e.  $0.6 \times 15,00 \text{ DM} = 9,00 \text{ DM}$ .

A customer buying 1000g will actually pay for 800g, i.e.  $0.8 \times 15,00 \text{ DM} = 12,00 \text{ DM}$

### Branch Name (German: **Filialtext**)

The name of a retail outlet (i.e. a particular store). This name can be printed out on receipts and is always used in sales reports.

### Checkout Slip (German: **Warenbon**)

Mostly used in butcher shops and bakeries in Germany. Such shops often have several counters and typically include a cafe where food obtained can be eaten on the spot.

During busy periods, an incoming customer would pick up a numbered basket or would simply be allocated a basket number (the basket number is a transaction number) and be served at several counters. The customer places the items obtained in the basket and receives a checkout slip from each counter visited. These slips are printed out by the scales where transactions for the basket number are booked. The customer is free to eat at the cafe and items obtained there are also booked under the same basket number.

When checking out, the customer hands in his slips to the cashier. The cashier will already have the total amount owed for the basket, so there is little chance that any items will remain unpaid. When all items are paid for, the checkout slip transaction is deleted.

Checkout slips are not always used during quiet periods where shop staff can see what the customer is up to.

At the time of closing, all checkout slips are cashed up and deleted. This must happen daily.

### **Collection Slip (German: Vorbestellbon)**

Used typically for a customer who places an order and will collect and pay for the goods later. This customer will be issued with such a receipt showing items ordered and what they cost. They can also be used for customers who take items and will pay for them later.

### **Confidence Text (German: Kompetenztext)**

Text associated with a PLU that provides the customer with useful information and tips on the product being weighed. The text also relieves the sales assistant of having to know information by heart about the items being sold and therefore gives confidence to both sales assistant and customer.

E.g. "The skin on this fruit is poisonous. Do not eat it."

### **Confidence Text Number (German: Kompetenztextnummer)**

A number that refers to a particular string of stored Confidence Text. By assigning one or more of these numbers to a PLU article, Confidence Texts can be assigned to the PLU article.

### **Default Department (German: Prioritäts Abteilung)**

The department in which the scale software is in upon switching on.

### **Department (German: Abteilung)**

An area of non-volatile memory on a scale or scale network that stores article groups containing PLUs of an actual department in a retail outlet. Departments can be thought of as numbered folders in which the sub-folders are article groups are stored.

Typical departments are: Meat & Salami, Cheese, Fruit & Veg etc.

### **Department Keys (German: Abteilungstasten)**

Used to access external PLUs. One of these keys is pressed and then the PLU code is entered. These keys are configurable.

### **Durability Text (German: Datumstexte)**

Text stored under a Durability Text Number, which can be printed out on labels. Examples of such text are:

"Use by," "Best before," "Best Until," "Sell by," "Packed on," etc.

### **Durability Text Number (German: Datumstexte Nummer)**

A number referring to stored durability text.

### **EAN Code Number**

A number referring to a stored EAN 13 barcode.

### **External PLU**

An external PLU is a PLU that is not stored in the default department of the scale.

PLUs are stored under folders called department numbers. It is common for different department numbers to be stored on different scales. It is also possible for the same scale to contain several department numbers.

In a scale network, a PLU stored under a department on one scale can be accessed by another scale in the network.

### **Fix Key**

Normally, a tare value or article price not saved in a preset key, or associated with a PLU, is automatically deleted a few seconds after it was used (i.e. after the weight is removed). The fix key allows the value to be saved temporarily. The value is deleted the next time the Fix key is pressed.

Example of use:

The sales assistant notices that the customer behind the one she is currently serving has the same non-PLU item in his basket as the one she is currently entering into the scale.

To avoid the item from disappearing when the current transaction is concluded, the sales assistant chooses to temporarily save it by pressing the Fix key.

### **Gratis Block Pricing (German: Mengenpreis Gratis)**

See Block Pricing.

### **Large Font Receipt Text**

Text that is roughly double the height of the standard font used.

**Menu Access Code – MAC (German: Code)**

A code number used to access a menu. Some of these code numbers can be changed.

**Minus PLU**

The ability of a PLU to take in negative amounts of money. This feature enables a refund on a PLU item purchased.

**Operator Keys (German: Verkäufertasten)**

A convenience feature for operator logging on and off the scale, or for associating an operator with a sale. A single key is used to store an operator code number. The end result is that each operator has his or her own key to press on the keyboard when logging on or off the scale.

**Order Mode (German: Bestellmode)**

A mode that contains the functionality necessary for items to be ordered and collected later. This functionality also includes the issuing of Collection Slips.

**Organisation Name (German: Firmentext)**

The name of the retail organisation. This name could be printed on labels.

**Primary Tare**

A default tare value used in self-serve scales. This value is saved in non-volatile memory and if enabled is utilised automatically when the scale is switched on. E.g. this feature would be used when the same container is always used on a self-serve scale platter.

**Quick Serve (German: Schnellbedienung)**

A feature used in scales with only one operator. A receipt is printed out as soon as a PLU is accessed and a weight is on the scale (i.e. there is no need to press any enter key to book the transaction). Of course, it is not possible for the scale to calculate amounts of change to give back to customers in this mode.

**Pictograph (German: Pictogramm)**

A small graphic symbol which is inserted into the pocket of a self-serve keyboard overlay. Such symbols allow the user to quickly locate the article being searched for.

(e.g. colourful symbols for bananas, oranges, apples etc.)

**Piecewise PLU (German: Stück PLU)**

A PLU that has no weight associated with it. Such an item is sold as a piece (e.g. a loaf of bread).

**Receipt on Label ((German: Bon auf Etikett)**

A label printed with a receipt number. This results in the transaction being saved in the journal and cancellation being possible.

**Reporting Level**

A frequency at which a sales report is compiled. Different levels can exist (e.g. daily, every other day, weekly, monthly). The levels are independent of each other in the sense that if a daily report is printed out and that area of memory is now deleted, the data for that day will still be intact in the weekly report and monthly report.

**Roving Operator (German: Durchbedienung)**

A feature of networked scales in which a sales assistant is allowed to serve the same customer from different scales. The transaction can be concluded on one scale where only one receipt or Checkout Slip is printed out.

Advantages are: receipt paper is saved, the assistant is free to use a scale that is positioned locally to the item he or she is selling (i.e. there is no need to walk back to the same scale the transaction was started on).

**Total Label**

A label typically used in German butcher shops. The label is used to seal a bag containing various items and shows the total amount of money to be paid at the checkout.

**Sales Categories (German: Erlösart)**

A feature used for adding detail to sales transactions so that they would show up in sales reports. Categories can be entered into the System and stored under Sales Category Numbers. Sales transactions can later be assigned to these categories, enabling the User to see sales levels for the different categories used.

E.g. A butcher's shop contains a small cafe where cold cooked meats and sandwiches are sold. The butcher would like to see sales for his cafe separate to sales of the counter. So, he creates a new Sales Category called Cafe and assigns a key on the keyboard to this category.

Now whenever a customer pays for an item from the cafe, the butcher simply has to press the Cafe key to enter a sale for this area only.

**Sales Category Number (German: Erlösartnummer)**

A number referring to a stored Sales Category.

**Sales Price 1 and Sales Price 2 (German: Verkaufspreis1 und 2, or VK1/ VK2)****Small Font Receipt Text**

The standard size of font used in the system.

**Special Offer**

A set of PLU articles that are temporarily offered at a reduced price for a specified time (from date, time to nearest hour to date and time to nearest hour). The lower price for each PLU in the set is entered when the special offer is created. The special offer has an associated name (e.g. Happy Italian Week).

**Staggered Block Pricing (German: Staffelpreis)**

See Block Pricing.

**Tare Number**

A number referring to a stored tare value.

**VAT Number**

A number referring to a stored VAT rate.

**X-Report (German: Zwischenumsatz)**

An intermediate sales report providing a snapshot of sales for the questioned period. The printing or listing of this report leaves all transactions in the transaction file intact (i.e. no transactions are deleted from memory when the report is compiled, listed and/or printed out). This feature is useful because it provides the User with feedback on how successful he, she or the outlet is, without deleting any memory.