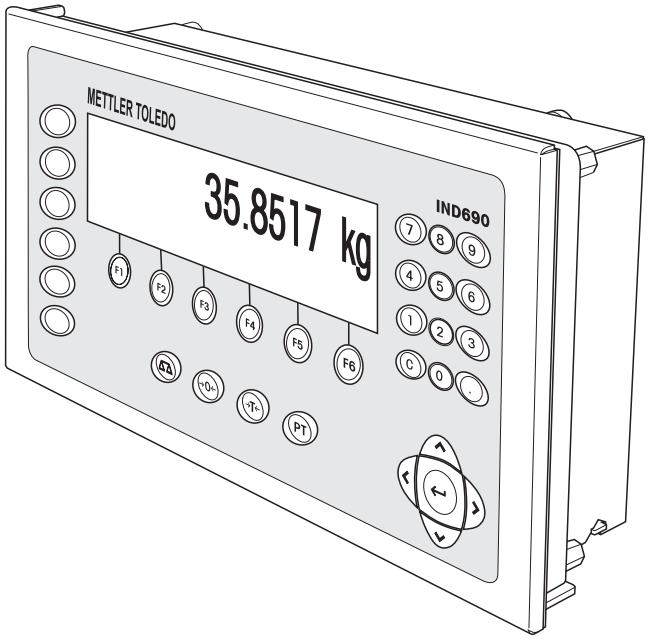
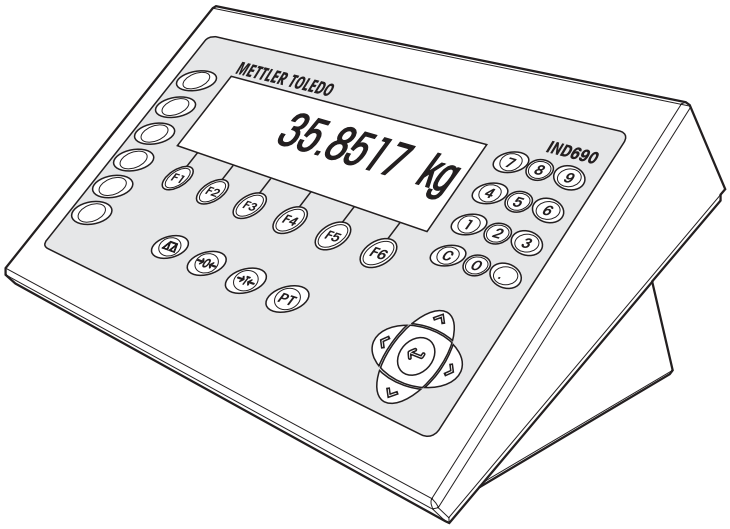
Operating instructions

METTLER TOLEDO MultiRange
Application software IND690-Sum





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1.1 Documentation

The weighing terminal IND690-… comes supplied with a CD containing all the documentation on the weighing system IND690.
These operating instructions describe the operation and configuration of the application software IND690-Sum.
The basic information for working with the weighing terminal IND690-... can be found in the operating instructions IND690-Base.

1.2 Introduction

With the IND690-Sum you can form 3 different sums:

- Article total, marked with #
- Customer sum, marked with *
- Total sum, per article marked with @, for all articles marked with §

The **article total** combines all items with the same article number.
Each article total can be added to a **customer sum**.
The **total sum** is formed independently of the article total and customer sum. It stores all items that have been totalized with the IND690-Sum in a database. Both the sums in the database fields of each individual article (@) and the individual sums for all identical database fields (§) are stored. Similar to application blocks, these database fields can be added to the printout configuration, see operating instructions for the IND690-Base weighing terminal.
A pre-configured total record of the total sum lists all items by article numbers.

Function keys The function keys of the IND690-Sum are assigned as follows:

PLUS	A TOT	C SUM	TOTAL	MAN	CANC
Start automatic totalizing or totalize items manually	Print article total, set article total buffer to zero, transmit article total to customer sum buffer	Print customer sum, set customer sum buffer to zero	Print sum report of total sum, save or delete list entries	Enter weight values or quantities manually	Cancel items and print cancelled values

➜ Select the function by pressing the function key.

Example

➜ Press the MAN key.
Then you can enter a weight value manually with the keypad.

When the function keys are otherwise allocated

➜ Press the cursor keys < or > repeatedly until the function key assignment shown above appears.

1.3 Entering identifications

To mark the items identifications must be entered prior to totalizing, e. g. the article number, see "Additional functions" chapter in the operating instructions for the IND690-Base weighing terminal.
Depending on the setting of the OPERATOR GUIDE in the master mode the IND690-Sum requests Code F to Code A in sequence.
The identification data buffers have the following standard assignment:

- Code A: ARTICLE NO
- Code B: DESTINATION
- Code C: IDENT C
- Code D: IDENT D
- Code E: CUSTOMER
- Code F: OPERATOR

If the name of the identification data buffers is to be changed in the master mode, make sure that the sum memories list all weighings by the article number or by the identification Code A.
When entering the identifications, no fixed text memories can be recalled with the IND690-Sum.

Date	01/12/97	
Time	11-40-56	
Ident D		*
	1236	*
Ident C		*
	7896	*
Destination		
	Client 1234	

Input

➜ Enter identifications and confirm each with ENTER.
After entering Code B the header is automatically printed.
Totalizing is started after entering Code A.

Notes

- The values marked with ***** only appear when the master mode block OPERATOR GUIDE is set to TARG. VALUE A+B+C(+D+E+F).
- The first character of the article number (Code A) **must** be a number, as otherwise the message ENTER NUMBER appears.
  All other identifications can be confirmed without entry with ENTER.
- The input of Code A or Code B can be cancelled by pressing the keys CODE A or CODE B again.
- For article numbers already present in the article database, it is sufficient when **all** characters (numbers and separating characters) are entered up to the first letter.
  Example: The existing article number "1004 Screw" can be called up with "1004 " (with blank space).
  To handle article numbers, see DATABASE master mode block on page 14.

1.4 Totalizing items with same article number

Totalizing manually

If AUTO TOTALIZING OFF is set in the master mode, the weight values of the items must be copied with the PLUS key.

1. Press PLUS key and enter identifications, see section 1.3.
2. Lay item on weighing platform.
3. Press PLUS key.
   The display shows the article number, the serial number and the net value # NET of the article total. The current article total is automatically printed out.

Article no.	12345678
Gross	12.495 kg
Net	11.000 kg
Tare	1.495 kg
Current no.	6

4. Relieve weighing platform.
5. To totalize additional items, repeat steps 2 to 4.

Totalizing automatically

If AUTO TOTALIZING ON is set in the master mode, the weight values of the items are automatically totalized.
If the items are in tare containers of an equal weight, the weighing platform can be tared with one of these containers prior to totalizing. The stored tare weight is then taken into account for all subsequent weighings.

1. Press PLUS key and enter identifications, see section 1.3.
2. Lay item on weighing platform.
   The display shows the article number, the serial number and the net value # NET of the article total. The current article total is automatically printed out.

Article no.	12345678
Gross	12.495 kg
Net	11.000 kg
Tare	1.495 kg
Current no.	6

3. Relieve weighing platform.
4. To totalize additional items, repeat steps 2 and 3.

Note
The PLUS key need only be pressed after the 1st item to start automatic totalizing.

Transmitting current article total

➜ Press A TOT key.
The current article total is transmitted to the customer sum buffer and printed out. Then the article total buffer is set to zero.
The display shows the last article number.

Article total	
Article no.	12345678
# Gross	12.495 kg
# Net	11.000 kg
# Tare	1.495 kg
# Items	6

Continuing totalizing

➜ Copy displayed article number with ENTER.
– or –
Enter new article number and confirm with ENTER.

Cancelling totalizing

➜ Cancel entry of article number with the CODE A key.

Notes

- If the article total or the customer sum memory overflows, the sum saved last is automatically printed and then deleted before copying the current item to the memory. The display shows *SUM OVERFLOW or # SUM OVERFLOW.
- The printout can be formatted as desired, see operating instructions for IND690-Base weighing terminal.

1.5 Entering known weight values manually

Known net weight values can be copied without weighing or quantities entered.
Manual entries in a running weighing series are stored under the current article number. However, the manual entries can also be stored under a separate article number.

1. With separate article number: Press A TOT key and enter article number for manual entry.
2. Press MAN key.
3. Weight value: Enter known net weight value and confirm with ENTER.
   – or –
   Pieces: Press the cursor keys < or > and enter the number of pieces in the unit PCS.
4. The display shows the net value of the current article total.
   The manual entry is automatically printed and the display shows the net weight value of the article total.

Article no.	12345
Hand	25.30 kg
Current no.	5

Article no.	12345
Hand	1000 pcs
Current no.	5

Notes

- The weight unit for entering known weight values can be selected with the cursor keys < or >.
- Weight values can only be entered in the displayed unit.
- The printout can be formatted as desired, operating instructions for IND690-Base weighing terminal.

1.6 Cancelling item

An item of the current article total can be cancelled by weighing back. Manually entered weight values cannot be cancelled.

➜ Leave the item to be cancelled on the weighing platform or place it on the platform again and press the CANC key.
Net, gross and tare weight values of the current item are negatively booked in the article total and customer sum memory.
The cancelled values are automatically printed.

Cancel	
Article no.	12345678
– Gross	12.495 kg
– Net	11.000 kg
– Tare	1.495 kg
Current no.	6

Notes

- If a negative weight value is formed in the article total or customer sum memory during cancelling, the item is not cancelled and the display shows NEGATIVE SUM.
- The serial number of the item is increased by 1 during cancelling, and the item counter in the article total or customer sum memory is decreased by 1.
- The printout can be formatted as desired, see operating instructions and installation information for printer GA46.

1.7 Ending totalizing and clearing customer sum

Article no.	6985	*
Gross	39.540 kg	*
Net	32.070 kg	*
Tare	5.470 kg	*
Hand	2.000 kg	*
Hand	0 pcs	*
Items	3	*
Article no.	7412	*
Gross	65.905 kg	*
Net	53.455 kg	*
Tare	12.450 kg	*
Hand	0.000 kg	*
Hand	0 pcs	*
Items	5	*
Customer sum		
* Gross	107.445 kg	
* Net	85.525 kg	
* Tare	21.920 kg	
* Hand	2.000 kg	
* Hand	0 pcs	
* Items	8	

After completing a shipment or an order the customer sum can be printed. If new identifications are then entered, a new totalizing process is started automatically.

1. Press C SUM key.
   The customer sum is printed and the customer sum buffer set to zero.
2. Enter identifications, see section 1.3.

Notes

- Article data are only listed individually when ENLARGED *SUM ON is set in the master mode.
- The printout can be formatted as desired, see operating instructions and installation information for printer GA46.
- The entries of the customer sum are available in the application blocks 323 … 328, see section 3.

1.8 Managing inventory

The default setting for the IND690-Sum is the PLUS MODE, in which it adds together all items with the same article number and the item counter increases.
If inventory control is to be carried out with the IND690-Sum, it is possible to switch back and forth between the PLUS MODE and the MINUS MODE to detect inventory receipts and removals.
Weight values adopted in the MINUS MODE are subtracted from the sum and the item counter is reduced.

Prerequisite

ITEMS ACTIVE is set in the master mode.

Inventory removals

1. To switch over to the MINUS MODE, press and hold the PLUS key until MINUS MODE appears in the display.
2. Totalize the inventory removals, see section 1.4.
   IND690-Sum operates in the MINUS MODE until it is switched over to the PLUS MODE again.

Inventory receipts

1. To switch over to the PLUS MODE, press and hold the PLUS key until PLUS MODE appears in the display.
2. Totalizing the inventory receipts, see section 1.4.
   IND690-Sum operates in the PLUS MODE until it is switched over to the MINUS MODE again.

Note
If the inventory level is dropped below, the display shows INVENTORY 0 and the weight value of the current item is not subtracted.

1.9 Working with several weighing platforms

When working with several weighing platforms, the weighing platform on which the individual items are weighed can be selected as desired.
Prior to taring the weighing platform or placing the item on the scale, select the number of the weighing platform, see "Basic functions" chapter in the operating instructions for the IND690-Base weighing terminal.
The number of the weighing platform is indicated on the printouts of the article total and the customer sum.

Note
The weighing sums of all weighing platforms are rounded off with the roughest increments according to the weighing platform.

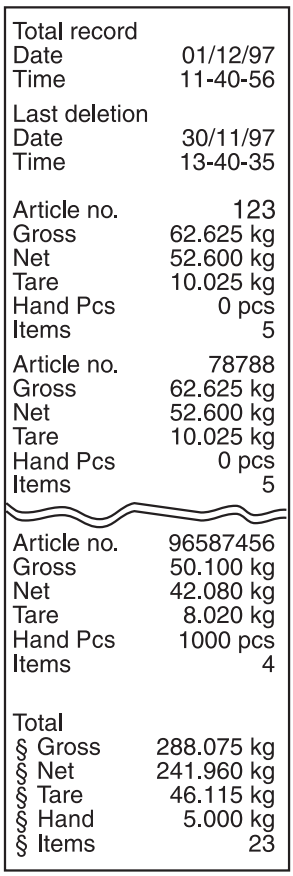
1.10 Recalling application-specific information

Information on totalizing can be recalled with the following key combinations:

INFO, PLUS	Display setting of AUTO TOTALIZING master mode block.
INFO, A TOT	Display current net value of the article total.
INFO, C SUM	Display current net value of the customer sum.
INFO, TOTAL	Display current net value of the total sum.
INFO, MAN	Display last manually entered weight value.
INFO, CANC	Display last cleared weight value.

Note
If several pieces of information are recalled with one key, the display changes automatically after the set DISPLAY DURATION. It is also possible to switch back and forth between these pieces of information with the CLEAR key.

1.11 Printing total record



Total record	
Date	01/12/97
Time	11-40-56
Last deletion	
Date	30/11/97
Time	13-40-35
Article no.	123
Gross	62.625 kg
Net	52.600 kg
Tare	10.025 kg
Hand Pcs	0 pcs
Items	5
Article no.	78788
Gross	62.625 kg
Net	52.600 kg
Tare	10.025 kg
Hand Pcs	0 pcs
Items	5
Article no.	96587456
Gross	50.100 kg
Net	42.080 kg
Tare	8.020 kg
Hand Pcs	1000 pcs
Items	4
Total	
§ Gross	288.075 kg
§ Net	241.960 kg
§ Tare	46.115 kg
§ Hand	5.000 kg
§ Items	23

For complete detection of all items, a total record should be printed at regular intervals, e. g. after one day, one week or after completing an entire shipment.
A database entry is created for each article number in the customer sum memory. A database entry consists of the following values:

- Article number
- Gross weight of all items (Gross)
- Net weight of all items (Net)
- Tare weight of all items (Tare)
- Quantities of the manual entries (Hand)
- Item counter (Items)

When the total record is printed out you can select whether you print the total record for an individual database entry or for all database entries.
The total record lists the database entries and the corresponding total values in the total sum memory.
The total record can be formatted. The article data can be called up as database fields.
Following printing you can store or clear the database entries. The setting of the DATABASE master mode block determines which data are cleared.

1.11.1 Printing individual database entry

1. Press the TOTAL, CODE A key sequence.
   The display shows the article number last entered.
2. To adopt the article number, press the ENTER key.
   – or –
   Enter a new article number and confirm with ENTER.
   The total record for this database entry is automatically printed and the display shows TOTAL RECORD and then SAVE ?
3. To save the database entry, press the ENTER key.
   – or –
   To delete the database entry, press the CLEAR key.

Note
If the entered article number is not present in the total sum memory, the display shows NO. NOT FOUND.

1.11.2 Printing all database entries

1. Press the TOTAL, ENTER key sequence.
   The total record is automatically printed and the display briefly shows TOTAL RECORD and then SAVE?.
2. To save all database entries, press the ENTER key.
   – or –
   To delete all database entries, press the CLEAR key.

1.12 Recalling total record from computer

If the interface is set to DIALOG MODE in the INTERFACE master mode block, the total record of the total sum can be recalled from the computer.
The following interface commands are available for this purpose:

- Print total record for all list entries and then save:
  `A W 3 0 6 _ $ $ 0 5` (corresponds to the TOTAL, ENTER key sequence)
- Print total record for all list entries and then delete:
  `A W 3 0 6 _ $ $ 1 5` (corresponds to the TOTAL, CLEAR key sequence)

In accordance with the printout of the total sum, the database entries and the customer sums are listed in the total sum memory in sequence.
In the process, the data are transmitted in their maximum length in accordance with the data formats in the application blocks.
During the data transmission, the keypad of the IND690-Sum is locked and the display shows DAILY LOG. TO EDP.

Note
After pressing the CLEAR key or when the total sum memory overflows, the IND690-Sum waits approximately 2 seconds before it deletes the article total memory. During this time the computer can request data transmission via the interface.

1.13 Printing total record on external printer

If REPORT EXTERNAL is set in the master mode, the total record of the total sum can be printed out on an external form printer.
In the PRINT MODE the printout can be formatted, see INTERFACE master mode block in the operating instructions for the IND690-… weighing terminal.
Here article data can be called up as database fields.

Example of printout on a certified printer

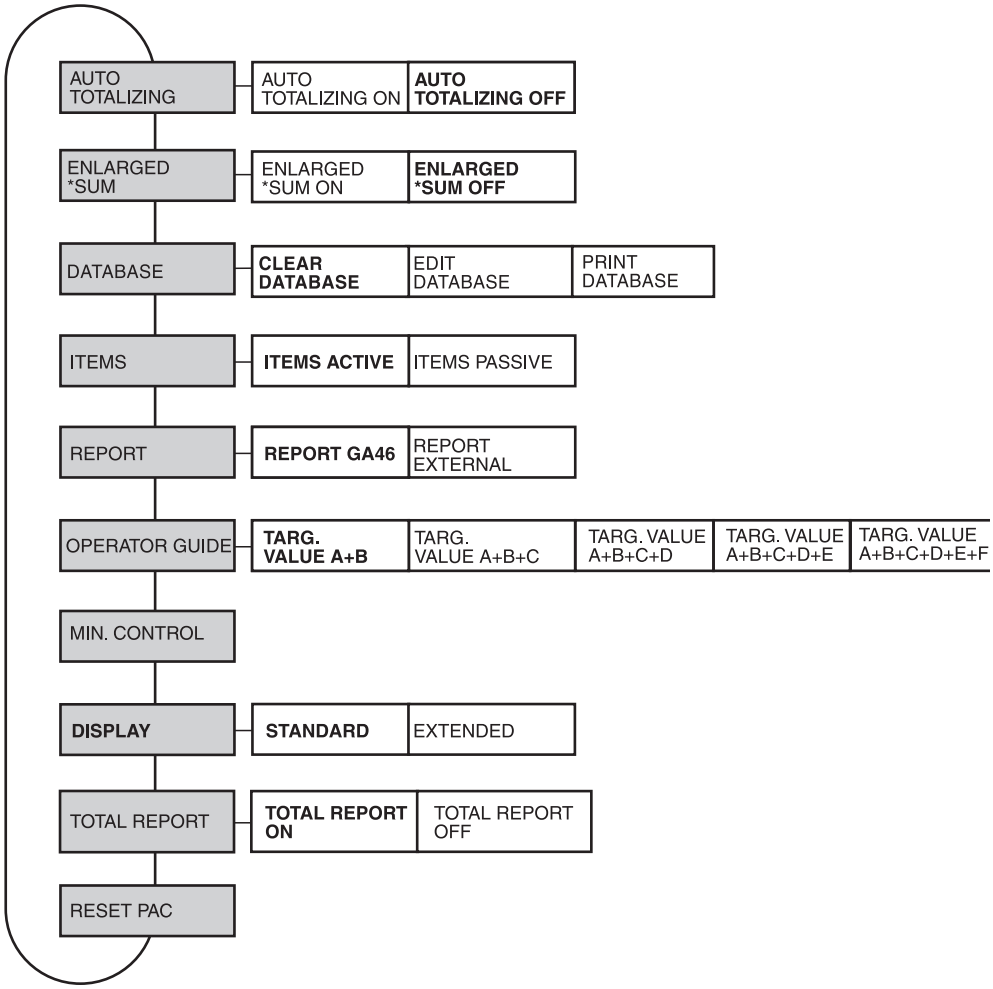
Total record
Date 06/06/06 Time 09-05-47
Last deletion Date 06/06/01 Time 09-25-41

ARTICLE	GROSS	NET	TARE	ITEMS
1000.ART01	1000 kg	800 kg	200 kg	2
1100.ART02	1500 kg	1200 kg	300 kg	4
1200.ART03	1000 kg	800 kg	200 kg	3
1300.ART04	2500 kg	2200 kg	300 kg	1
Total	§ Gross 6000 kg	§ Net 5000 kg	§ Tare 1000 kg	§ Items 10

2 Settings in the master mode

2.1 Overview of the PAC master mode block

In this block the following system settings can be carried out:



Legend

- Blocks on a **grey** background are described extensively in the following.
- Factory settings are printed in **bold** type.

2.2 Settings in the PAC master mode block

AUTO TOTALIZING	**Switch automatic totalizing on or off**
	Factory setting: AUTO TOTALIZING OFF

ENLARGED *SUM	**Also divide up customer sum printout by article numbers**
	Factory setting: ENLARGED *SUM OFF

DATABASE	**Edit article data**
EDIT DATABASE	Edit database entries, see page 16.
PRINT DATABASE	Print a list of all database entries.
CLEAR DATABASE	Clear only selected data when deleting a database entry in the total sum memory.
CLEAR TOTAL	Clear only weight sums and item counters; the article entry with the article number is retained (factory setting).
CLEAR ALL	Clear article number, all other identification data, weight sums and item counters.

ITEMS	**Switch item counter for inventory control on or off**
ITEMS ACTIVE	For inventory receipts the item counter is increased with the PLUS key, for inventory removals it is decreased (factory setting).
ITEMS PASSIVE	Switch off item counter; the display shows the article total and a serial number.
Comment	The item counter is available in application block 317, see section 3.

REPORT	**Select printer for total record of total sum**
REPORT GA46	Print total record on printer GA46; the printout cannot be formatted (factory setting).
REPORT EXTERNAL	Print total record on a form printer; the printout can be formatted as desired.

OPERATOR GUIDE	**Interrogation of the identification data memory prior to totalizing**
TARG. VALUE A+B	Code B and Code A are always requested (factory setting).
TARG. VALUE A+B+C	Code C, Code B and Code A are always requested.
TARG. VALUE A+B+C+D	Code D, Code C, Code B and Code A are always requested.
TARG. VALUE A+B+C+D+E	Code E, Code D, Code C, Code B and Code A are always requested.
TARG. VALUE A+B+C+D+E+F	Code F, Code E, Code D, Code C, Code B and Code A are always requested.

MIN. CONTROL	**Set minimum load control**
	If the current weight value is less than the value of the MIN. CONTROL, the display shows INSUFFICIENT WEIGHT. Possible values: 1 … 99 digit (factory setting: 10)

DISPLAY	**Select display presentation**
STANDARD	Article number can only be displayed with 14 characters.
EXTENDED	If entered, the article number is displayed immediately after entry in a larger font on the middle line. Up to 20 characters can be displayed.

TOTAL REPORT	**Switch the total report on/off**
	If a total is not required, the total report can be deactivated. If the total report is deactivated, no total sum is added up and the TOTAL key is not displayed. The error message EL is displayed at the AW_306 … interface command. Factory setting: TOTAL REPORT ON

RESET PAC	**Reset all functions to the factory settings**
	Block — **Factory setting**
	AUTO TOTALIZING — off
	ENLARGED *SUM — off
	CLEAR DATABASE — clear total
	LIST — clear sums
	ITEMS — active
	REPORT — report GA46
	OPERATOR GUIDE — enter A+B
	MIN. CONTROL — 10 digit
	TOTAL REPORT — on

Editing database entries

Function keys

The function keys in the block EDIT DATABASE are assigned as follows for editing database entries:

	<	**>**	**F▶**	**NEW**	↑
	Display previous database entry	Display next database entry	Select function of function key F5: NEW, SEARCH, EDIT	SEARCH EDIT DEL	Accept changes and return to higher level block

The database entry can be edited with function key F5:

NEW — Create new database entry. Here the first character of the article number (Code A) must be a number, as otherwise the message ENTER NUMBER appears.

SEARCH — Search for an existing database entry.

EDIT — Edit an existing database entry.

CLEAR — Clear displayed database entry.

3 Application blocks

In the following description, the application blocks are shown in the syntax for the MMR command set. When used with the SICS command set, please observe the SICS conventions, see Operating instructions for IND690-Base weighing terminal.

No.	Content	Format
301	Pac version	Response: A,B,_,IND690-Sum_Vx.xx_
302	Program number	Response: A,B,_,IP66-0-0xxx_
305	Keypad entry or read-in barcode	Response: A,B,_,Entry Write: A,W,3,0,5,_,$,$,Entry Comment: Entry = Text_20, number or weight value
306	Total record	Write: **Print and save total record** A,W,3,0,6,_,$,$,0,5 TOTAL, ENTER key sequence **Print and delete total record** A,W,3,0,6,_,$,$,1,5 TOTAL, CLEAR key sequence
310	Consecutive number	Response: A,B,_,Number_4
311	Print article total: fixed text article total	Response: A,B,_,Text_20
312	Article total: gross weight (#Gross)	Response: A,B,_,Weight value,_,Unit
313	Article total: net weight (#Net)	Response: A,B,_,Weight value,_,Unit
314	Article total: tare weight (#Tare)	Response: A,B,_,Weight value,_,Unit
315	Article total: manual quantity eentries (#Hand)	Response: A,B,_,Number_10,_,Unit Unit = PCS
316	Article total: item counter (#Items)	Response: A,B,_,Number_6
317	Item counter for inventory control	Response: A,B,_,Number_6
318_001 … 318_006	Identification data Code A … Code F	Response: A,B,_,Name (text_20),_,_,Identification (text_20) Write: A,W,3,x,x,_,Name (text_20),$,$,Identification (text_20) Comment: xx = 18_001 … 18_006; corresponds to the application blocks 094 … 099

No.	Content	Format
318 … 321	Identification data Code A … Code D	Response: equal to 318_001 Write: equal to 318_001 Comment: xx = 18 … 21; corresponds to the application blocks 094_001 … 094_004
322	Total record: fixed text total record	Response: A B _ Text_20
323	Print customer sum: fixed text customer sum	Response: A B _ Text_20
324	Customer sum: gross weight (*Gross)	Response: A B _ Weight value _ Unit
325	Customer sum: net weight (*Net)	Response: A B _ Weight value _ Unit
326	Customer sum: tare weight (*Tare)	Response: A B _ Weight value _ Unit
327	Customer sum: manual quantity entries (*Hand)	Response: A B _ Number_10 _ Unit Unit = PCS
328	Customer sum: item counter (*Items)	Response: A B _ Number_4
329	Total record: date/time at last deletion	Response: A B _ Text_20 _ _ Date _ _ Time Write: A W 0 1 9 _ Text_20 $ $ Date $ $ Time Comment: Text: e. g. last deletion Date: DD.MM.YY, MM.DD.YY Time: hh.mm.ss, A/PMhh.mm.ss
330	Total record: fixed text for cancelled items	Response: A B _ Text_20 Write: A W 3 1 1 _ Text_20 Comment: e. g. cancel
331	Total sum, cancelled items: gross weight (–Gross)	Response: A B _ Weight value _ Unit
332	Total sum, cancelled items: net weight (–Net)	Response: A B _ Weight value _ Unit
333	Total sum, cancelled items: tare weight (–Tare)	Response: A B _ Weight value _ Unit

No.	Content	Format
335	Total sum, manual entry: fixed text for printing and weight value	Response: A B _ Text_20 _ Weight value _ Unit Write: A W 3 3 5 _ Text_20 Weight value _ Unit
336	Total record: fixed text total	Response: A B _ Text_20
337	Total sum: gross weight (§Gross)	Response: A B _ Weight value _ Unit
338	Total sum: net weight (§Net)	Response: A B _ Weight value _ Unit
339	Total sum: tare weight (§Tare)	Response: A B _ Weight value _ Unit
340	Total sum: manual weight entries (§Hand weight)	Response: A B _ Weight value _ Unit
341	Total sum: manual quantity entries (§Hand pieces)	Response: A B _ Number_10 _ Unit Unit = PCS
342	Total sum: item counter (§Items)	Response: A B _ Number_6
343	Last closed article: Date, time, name of destination, identification of destination, name of article, identification of article	Response: A B _ Date _ Time _ Name of destination (Text_20) _ Identification of destination (Text_20) _ Name of article (Text_20) _ Identification of article (Text_20)
344	Last closed article: Gross weight	Response: A B _ Weight value _ Unit
345	Last closed article: Net weight	Response: A B _ Weight value _ Unit
346	Last closed article: Tare weight	Response: A B _ Weight value _ Unit
347	Last closed article: Manual entry of pieces	Response: A B _ Number_10 _ Unit
348	Last closed article: Item counter	Response: A B _ Number_6

4 What to do if …?

Error / Display	Possible causes	Remedy
ENTER NUMBER	• No numerical entry for Code A	➜ Enter article number
NOT USED	• Buffer contains no data	➜ Totalize items with + key
NO. NOT FOUND	• No database entry exists for entered article number	➜ Enter existent article number
VALUE TOO HIGH	• Place number for manual entry of pieces exceeded	➜ Enter maximum of 999 999 PCS
WRONG INPUT	• Manual entry of pieces contains decimal places	➜ Enter quantity without decimal places
WEIGHT TOO LOW	• Minimum weight dropped below when totalizing or clearing	➜ Place weight > minimum weight on scale
LOAD SCALE	• Minimum deflection dropped below when totalizing or clearing	➜ Place weight on scale or move scale
NEGATIVE NET	• Negative weight values cannot be totalized	➜ Relieve scale and retare
NEGATIVE SUM	• Clearing would lead to a negative subtotal or total sum	➜ Place right item on scale
BUFFER FULL	• Max. number of article numbers in total sum buffer reached	➜ Print total record and clear
OVERFLOW PIECES	• Manual entry of pieces leads to a sum greater than 999 999	➜ Manual entry of pieces is automatically printed and deleted
OVERFLOW TOTAL	• Totalizing leads to a value greater than 999 999 999 kg or to more than 9 places • Itemcounter exceeds 999 999	➜ Total sum is automatically printed and deleted ➜ Itemcounter starts over at 1
*SUM OVERFLOW	• Totalizing leads to a value greater than 999 999 999 kg or to more than 9 places • Itemcounter exceeds 999 999	➜ Subtotal is automatically printed and deleted ➜ Itemcounter starts over at 1
# SUM OVERFLOW	• Totalizing leads to a value greater than 999 999 999 kg or to more than 9 places • Itemcounter exceeds 999 999	➜ Total sum is automatically printed and deleted ➜ Itemcounter starts over at 1
SERIAL NO. OVERFLOW	• Serial number for individual printout is greater than 999 999	➜ Serial number automatically starts over at 1

Error / Display	Possible causes	Remedy
OFF LIMIT	• When DeltaTrac is activated, net value is not within set tolerances, therefore cannot be totalized and cleared	➜ Conclude weigh-in properly
STOCK 0	• Current item cannot be subtracted, as the stock will be dropped below	➜ Restock

5 Technical data

Totalizing functions	
Subtotal memory	• For gross, net and tare • Capacity up to 999 999 999 kg or a maximum of 9 places including decimal point
All sum memory	• For totalizing subtotals • Capacity up to 999 999 999 kg or a maximum of 9 places including decimal point
Total sum memory	• For exact article detection of all sub-quantities within certain time period or for completion of a shipment • Capacity up to 999 999 999 kg or a maximum of 9 places including decimal point
Article management	Maximum of 999 article numbers
Serial No.	On every sub-quantity printout, capacity up to 999 999
Item counter	On every sum printout, capacity up to 999 999
Input routine	Automatic input request for destination data and article numbers for exact article sum detection
Clear function	Reverse entry of incorrectly totalized sub-quantities from sum memories
Manual input	Manual input of known weight values (net) in sum memories or piece inputs for logging on output
Automatic totalizing	Automatic totalizing and printing after placing weighing sample on scale and stabilization of weighing platform

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