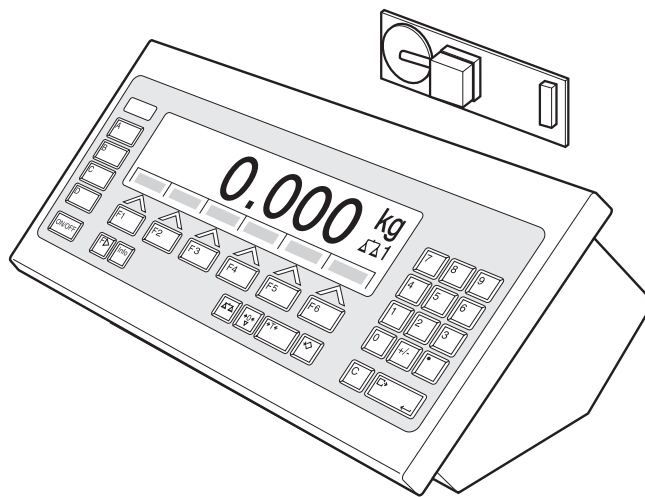


Operating instructions and installation information

**METTLER TOLEDO MultiRange
ID7-Form application software**

METTLER TOLEDO



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1 Introduction and assembly

1.1 Introduction

ID7-Form is an application software for the METTLER TOLEDO ID7... weighing terminal. The functions of the ID7-Form can be used after replacing the memory module.

Documentation

The ID7... weighing terminal is provided with operating instructions and installation information for the original configuration of the weighing terminal. Please see these operating instructions and installation information for basic information on working with the ID7... weighing terminal.

These operating instructions and installation information contain additional information on installing and using the ID7-Form application software.

1.2 Safety precautions



- ▲ Only authorized personnel may open the weighing terminal and install the ID7-Form application software.
- ▲ Always pull the mains plug before opening the unit.

1.3 Installing ID7-Form

1.3.1 Open ID7... weighing terminal

Desk unit

1. Unscrew the screws on the underside of the cover.
2. Lay down the cover toward the front. In doing so, make sure that the cables are not damaged.

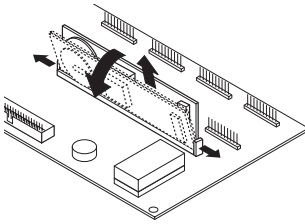
Wall unit

1. Unscrew the screws on the underside of the cover.
2. Pull the display and keypad cables off the main board.

Panel unit

1. Remove 6 screws on the cutout.
2. Only slightly loosen the two large Phillips screws and turn the housing lugs outward.
3. Carefully remove the unit and pull the display and keypad cable off the main board.

1.3.2 Mounting ID7-Form



1. Bend the bracket of the memory module outward on both sides, tilt the memory module forward and remove.
2. Insert the ID7-Form memory module tilted slightly toward the front and move it into the vertical position until it engages.

1.3.3 Close ID7... weighing terminal

Close desk unit

1. Lay device on cover and fix slightly in place with 3 screws.
2. Press unit into cover so that 3 engaging springs engage.
3. Tighten screws.



CAUTION

The IP68 protection type can only be guaranteed when the weighing terminal is closed again properly.

- The 3 engaging springs must be completely engaged.
- Make sure that the keypad cable is not pinched.

Close wall unit

1. Make sure that the display and keypad cables are properly connected again.
2. Place the cover on the unit and screw it on again.

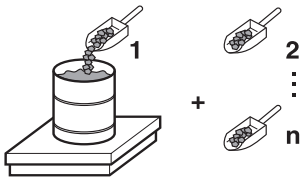
Close panel unit

1. Make sure that the display and keypad cables are properly connected again.
2. Place the unit on the cutout, secure with the housing lugs and tighten the two large Phillips screws.
3. Mount the unit on the cutout with the 6 screws and tighten all screws.

2 Formulation functions

The ID7-Form offers 3 different formulation applications, which you can select in the master mode:
 FORMULATION, PHARMA FORMULATION and TOTALIZING.

2.1 FORMULATION application



In this application, you can measure out several components into a container one after the other. Each recipe and each component can be provided with an identification.

Prerequisite

In the master mode, the FORMULATION application is selected.

Function keys

With the FORMULATION application the function keys are allocated as follows:

| MAN | SUM | CONT | PLUS | – | – |
|------------------------------|-------------------------------|--------------------------------|-------------------|---|---|
| Enter weight values manually | Display net sum and print out | Subtotal for current container | Add weight values | – | – |

→ Press the relevant function key, in order to select the function.

Example

→ Press the MAN key.
 Then you can enter the known weight values manually via the keyboard.

When the function keys have a different allocation

→ Press the FUNCTION CHANGE key until the function keys allocation displayed above appears.

2.1.1 Formulation

1. Press CODE A key and enter the identification for the recipe.
2. Place the empty container on the weighing platform and tare.
3. Press CODE C key and enter the identification for the first component.
4. Add first component.
 The display indicates the net weight of the current component.
5. Press PLUS key.
 The weighing platform tares automatically and the display registers 0.000 kg.
 The current net sum in the container is determined and the component counter is increased by 1.
6. In order to add further components in the container, repeat steps 3 to 5.
 Max. 15 components per container are possible.

Change the container 7. If more than 15 components are filled into a container or the container is overfilled: Press CONT key and place a new container on the weighing platform. The container counter is increased by 1, the component counter is set back to zero for the new container and the tare weight is deleted.

End formulation 8. Press SUM key.
The net sum is displayed and automatically printed out.

9. If the net sum is to be placed into temporary storage, press the ENTER key.

10. Press CLEAR key.
The net sum is deleted and the component counter and the container counter are reset.

2.1.2 Carry over the known weight value to the sum

1. Press MAN key.
2. Enter the weight value and confirm with ENTER.
The weight value is stored in the sum memory and the component counter is increased by 1.

Note

With the FUNCTION CHANGE key you can select the weight unit for entering known weight values.

2.1.3 Tolerance control with DeltaTrac

Using DeltaTrac in the application FILLING you can monitor on weighing in the compliance of the tolerances with the target weight, see chapter "Additional functions" in the operating instructions and installation information ID7... weighing terminal.

The weight value is only added to the sum when the weight value lies within the tolerance limits.

1. Preset the DeltaTrac target values for the current component.
2. Add the component.
If there is an addition beyond the tolerance limits, remove the container and fill again or delete the target value.
3. Press PLUS key.
The components are only carried over to the sum when they lie within the tolerance limits.

Note

With the FUNCTION CHANGE key you can select the weight unit for entering the DeltaTrac target values.

2.1.4 Change the weighing platform

On the ID7-Form up to 3 weighing platforms can be attached, see chapter "Basic functions" in the operating instructions and installation information ID7... weighing terminal.

A recipe must be formulated only on one weighing platform. Therefore:

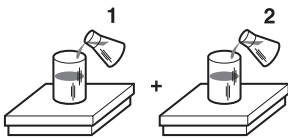
→ Before changing the weighing platform, conclude the current recipe.

2.1.5 Recall information regarding the FORMULATION application

Using the key sequence INFO, FUNCTION key you can recall information regarding the FORMULATION application.

| | |
|------------|--|
| INFO, MAN | Display last entered weight value. |
| INFO, CONT | Display number and subtotal for the current container. |
| INFO, PLUS | Display the last weighed components. |

2.2 PHARMA FORMULATION application



In this application, you can fill each component of a recipe in a separate container. Each recipe and each component can be individually provided with an identification.

Prerequisite

In master mode, the PHARMA FORMULATION application is selected.

Function key

With the PHARMA FORMULATION application the function keys are allocated as follows:

| MANUAL | SUM | CONTAINER |
|-----------------------------|-------------------------------|-----------------|
| Enter weight value manually | Display net sum and print out | Close container |

→ Press the relevant function key, in order to choose the functions.

Example

→ Press the MANUAL key.
Then you can enter the known weight values manually via the keyboard.

If the function keys have a different allocation

→ Press the FUNCTION CHANGE key until the function keys allocation displayed above appears.

2.2.1 Pharma formulation

1. Press CODE A key and enter the identification for the recipe.
2. Place the container on the weighing platform and tare.
The container counter is increased by 1.
3. Press CODE C key and enter the identification of the first component.
4. Add the components.
The display shows the net weight of the current component.
5. Press CONTAINER key.
The tare weight of the container is deleted.
6. In order to add further components, repeat steps 2 to 5.

End pharma formulation

7. Press SUM key.
The net sum is displayed and automatically printed out.
8. If the net sum is to be placed into temporary storage, press the ENTER key.
9. Press CLEAR key.
The net sum is deleted, and the component and container counters are reset.

2.2.2 Carry over the weight values to the sum

1. Press MANUAL key.
2. Enter the weight value and confirm with ENTER
The weight value is stored in the sum memory and the item counter is increased by 1.

Note

With the FUNCTION CHANGE key you can select the weight unit for entering known weight values.

2.2.3 Tolerance control with DeltaTrac

With DeltaTrac in the application FILLING you can monitor on weighing in the compliance of the tolerances with a target value, see chapter "Additional functions" in the operating instructions and installation information ID7... weighing terminal.
The weight value is only added to the sum when the weight value lies within the tolerance limits. Possible settings in the master mode:

- FILL – A target value applicable to all fillings.
- COMPOUNDING – A target value for each container or each component.

Fill

1. Preset DeltaTrac target values.
2. Add component.
If there is an addition beyond the tolerance limits, remove the container and fill again or delete the target value.
3. Press CONTAINER key.
The components are only then carried over to the sum if they lie within the tolerance limits.
4. For the additional components, repeat steps 2 and 3.
The DeltaTrac target values remain stored until new values are entered or the values are deleted.

Compounding

1. Preset the DeltaTrac target values for the components.
2. Add component.
If there is an addition beyond the tolerance limits, remove the container and fill again or delete the target value.
3. Press CONTAINER key.
The component is only then carried over to the sum if it lies within the tolerance limits.
4. For additional components, repeat steps 1 to 3.
The DeltaTrac target values are deleted after each component.

Note

With the FUNCTION CHANGE key you can select the weight unit for entering the DeltaTrac target values.

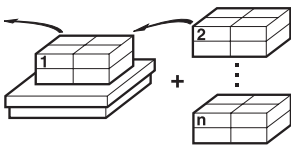
2.2.4 Recall information regarding the PHARMA-FORMULATION application

Using the key sequence INFO, FUNCTION key you can recall information regarding the PHARMA-FORMULATION application.

INFO, MANUAL Display the last entered weight value.

INFO, CONTAINER Display the sum for the current container.

2.3 TOTALIZING application



In this application, you can determine the total weight of several items. Each sum and each item can be provided with an identification.

Prerequisite

In the master mode the TOTALIZING application is selected.

Function keys

With the TOTALIZING application the function keys are allocated as follows:

| MANUAL | SUM | PLUS |
|------------------------------|---------------------------------|-------------------|
| Enter weight values manually | Display gross sum and print out | Add weight values |

→ Press the relevant function key in order to select the functions.

Example

→ Press the MANUAL key.
Then you can enter the weight values manually via the keyboard.

If the function keys have a different allocation

→ Press the FUNCTION CHANGE key until the function keys allocation displayed above appears.

2.3.1 Totalizing

1. Press CODE A key and enter the identification for the sum.
2. Press CODE C key and enter the identification for the first item.
3. Put the first item on.
4. Press PLUS key.
The item counter is increased by 1 and displayed with the gross sum.
5. Place the additional items on and repeat steps 2 to 4.

End totalizing

6. Press SUM key.
The gross sum is displayed and printed out automatically.
7. In order to place the gross sum into temporary storage, press the ENTER key.
8. In order to delete the gross sum, press the CLEAR key.
The item counter is reset.

2.3.2 Transfer the weight value to the sum

1. Press MANUAL key.
2. Enter the weight value and confirm with ENTER.
The weight value is stored in the sum memory and the item counter is increased by 1.

Note

With the FUNCTION CHANGE key you can select the weight unit for entering known weight values.

2.3.3 Recall information regarding the TOTALIZING application

Using the key sequence INFO, FUNCTION key you can recall information regarding the TOTALIZING application.

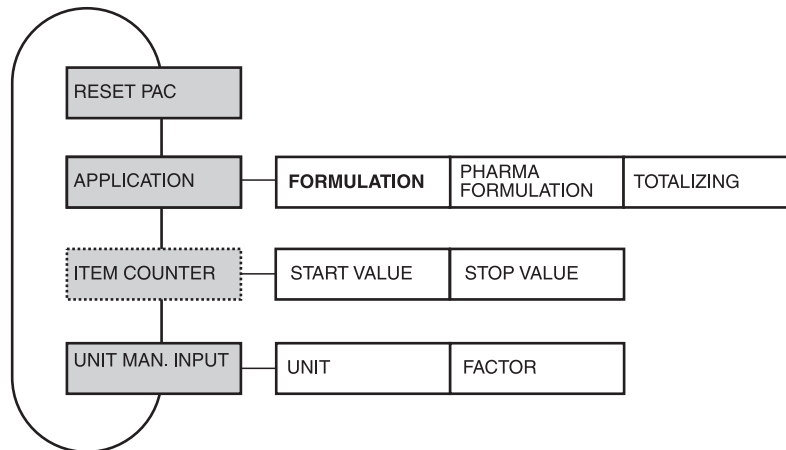
| | |
|--------------|--|
| INFO, MANUAL | Display the last entered weight value. |
| INFO, PLUS | Display the number of items weighed until now. |

3 Settings in the master mode

3.1 PAC master mode block

3.1.1 Overview of the PAC master mode block

In this block, the following settings are possible:



- Legend**
- Blocks marked in **grey** are described extensively in the following.
 - Factory settings are printed in **bold** type.
 - Blocks that appear only under specific conditions are **dotted**.

3.1.2 Settings in the master mode block PAC

| RESET PAC | Reset all functions to the factory settings |
|------------------|--|
| | APPLICATION Formulation ITEM COUNTER Start value = 1, final value = 9999 UNIT MANUAL ENTRY kg |

| APPLICATION | Select application |
|--------------------|---|
| FORMULATION | Fill the recipe components one after the other into the container. |
| PHARMA FORMULATION | Fill the recipe components one after the other into separate containers. Possible settings: <ul style="list-style-type: none"> • FILL – Fill all components to the same target value. • COMPOUNDING – Fill each component to a different target value. |
| TOTALIZING | Totalize several items. |

| ITEM COUNTER | With the application TOTALIZING set the item counter |
|--------------|--|
| START VALUE | Possible values: 1 ... 9999 (factory setting: 1) |
| STOP VALUE | Possible values: 1 ... 9999 (factory setting: 9999) |

| UNIT MANUAL ENTRY | Select preferred unit for weight values, which are entered with the MANUAL key |
|-------------------|--|
| UNIT | Possible units: g, kg, lb, ozt, dwt, oz, Stk, Pcs, neutral unit Factory setting: kg |
| FACTOR | Enter the conversion factor for the neutral unit. Example: For determining the weight of liquids, enter the density of the liquid as the factor. In weighing operation, enter the volume of the liquid, the weight of the liquid is displayed. |

4 Application blocks

4.1 PAC application blocks

| No. | Content | Format |
|-------------------|---|--|
| 301 | Pac version | Response: <input type="text" value="A,B _ I,D / ,F o,r,m,P,a,c _ V,x, .,x,x"/> |
| 302 | Program number | Response: <input type="text" value="A,B _ I,P,7,2,-,0,-,0,x,x,x _"/> |
| 310 | Counter | Response: <input type="text" value="A,B _ Number_4"/> Comment: Application FORMULATION, PHARMA FORMULATION: Component counter Application TOTALIZING: Item counter |
| 311 | Container counter | Response: <input type="text" value="A,B _ Number_4"/> Comment: only with the application FORMULATION, PHARMA FORMULATION |
| 312 | Component counter current container | Response: <input type="text" value="A,B _ Number_4"/> Comment: only with the application FORMULATION |
| 313 | Sum net weight | Response: <input type="text" value="A,B _ Weight value _ Unit"/> |
| 314 | Sum gross weight | Response: <input type="text" value="A,B _ Weight value _ Unit"/> Comment: only with the application TOTALIZING |
| 315 | Manual entry | Response: <input type="text" value="A,B _ Weight value _ Unit"/> |
| 316 | Unit manual entry | Response: <input type="text" value="A,B _ Unit"/> Write: <input type="text" value="A,W 3,1,6 _ Unit"/> |
| 317 | Start value item counter | Response: <input type="text" value="A,B _ Number_4"/> Write: <input type="text" value="A,W 3,1,7 _ Number_4"/> Comment: only with the application TOTALIZING |
| 318 ... 321 | Identification data Code A ... Code D | Response: <input type="text" value="A,B _ Name (text_20) _ _ Identification (text_20)"/> Write: <input type="text" value="A,W 3,x,x _ Name (text_20) \$,\$ Identification (text_20)"/> Comment: xx = 18 ... 21; the blocks 318 ... 321 contain the same information as blocks 094 ... 097. |
| 322 | Sum net weight current container | Response: <input type="text" value="A,B _ Weight value _ Unit"/> Comment: only with the application FORMULATION |
| 323 | Net weight last start weight | Response: <input type="text" value="A,B _ Weight value _ Unit"/> |
| 324 ... 338 | Net weight component 1 ... component 15 | Response: <input type="text" value="A,B _ Identification (text_20) _ _ Weight value _ Unit"/> Comment: only with the application FORMULATION |

| No. | Content | Format |
|-----|--|--|
| 339 | Tare weight current container | Response: <input type="text" value="A"/> <input type="text" value="B"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit Comment: only with the application FORMULATION, PHARMA FORMULATION |
| 340 | Stop value item counter | Response: <input type="text" value="A"/> <input type="text" value="B"/> <input type="text" value=""/> Number_4 Write: <input type="text" value="A"/> <input type="text" value="W"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value=""/> Number_4 Comment: only with the application TOTALIZING |
| 341 | Conversion factor for the neutral unit with manual entry | Response: <input type="text" value="A"/> <input type="text" value="B"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit Write: <input type="text" value="A"/> <input type="text" value="W"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="1"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit |
| 342 | Gross weight last totalizing procedure | Response: <input type="text" value="A"/> <input type="text" value="B"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit |
| 343 | Tare weight last totalizing procedure | Response: <input type="text" value="A"/> <input type="text" value="B"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit Write: <input type="text" value="A"/> <input type="text" value="W"/> <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="3"/> <input type="text" value=""/> Weight value <input type="text" value=""/> <input type="text" value=""/> Unit |

5 What to do if ...?

| Error / Display | Possible causes | Remedy |
|--|--|--|
| OVERFLOW SUM GROSS OVERFLOW SUM NET | <ul style="list-style-type: none"> Capacity of buffer for gross sum or for net sum exceeded | → Delete sum and form sub-sum |
| OVERFLOW CONTAINER | <ul style="list-style-type: none"> Capacity of buffer for container counter exceeded | → Reset counter by deleting sum → Suitably divide sum or recipe |
| OVERFLOW ITEMCOUNTER | <ul style="list-style-type: none"> Itemcounter or component counter has reached stop value | → Reset counter by deleting sum → Select suitable start and stop value |
| OVERFLOW MAN. INPUT | <ul style="list-style-type: none"> Manual entry would exceed capacity of sum buffer | → Check value of manual entry → Check value of FACTOR FOR NEUTRAL UNIT |
| WEIGHT TOO LOW | <ul style="list-style-type: none"> Totalizing or formulation with weight which is too low | → Place item on platform or fill component; watch 10 d weight threshold. |
| NEGATIVE COMPONENT | <ul style="list-style-type: none"> Current component negative | → Place component removed last on scale again until second display is positive |
| NO VALUE | <ul style="list-style-type: none"> Manual entry: No value or zero entered | → Enter permissible value |
| CONT. NOT FINISHED | <ul style="list-style-type: none"> Sum key pressed without having formed container sum for all scales used beforehand | → Form all container sums |
| CLEAR SUM | <ul style="list-style-type: none"> Sum not cleared | → Clear sum |

6 Technical data

| Formulation functions | |
|------------------------------|--|
| Sum memory | Up to 8 places including decimal point |
| Manual entry memory | Up to 6 places including decimal point |
| Item counter | Up to 9,999 with freely selectable start and stop value, only for TOTALIZING application |
| Component counter | Up to 9,999, only for FORMULATION and PHARMA FORMULATION applications |
| Container counter | Up to 9,999, only for FORMULATION and PHARMA FORMULATION applications |

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