

Manual | for authorised electricians

Power meter WM271 - Activating/Deactivating Easy Connection (EC)

IMPORTANT

- ▶ Read this documentation carefully before installation.
- ▶ Retain this document for reference purposes.

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Document number KD-396

Part number -

Version X00

Publication date 06/13/2017

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1 Information about this document

This document contains additional information about the programming mode Easy Connection (EC) of the power meter WM271.

► Observe the respective installation instructions, in particular the safety instructions.

1.1 Target group of this document

This document is intended for authorised electricians. The actions described here must only be performed by authorised electricians.

1.2 Explanation of symbols



Extremely dangerous situation leading to certain death or serious injury if the safety information is not observed.



Dangerous situation leading to potential death or serious injury if the safety information is not observed.



Dangerous situation leading to potential injury if the safety information is not observed.



Indicates actions that may cause material damage.



Important information not associated with any risks to people or property.

Symbol	Meaning
►	Work step
1. 2. 3. ...	Work steps in a defined order
•	List

Table 1: Additional symbols

2 Safety

Carrying out of electrical work may be necessary in order to implement the settings described in this document. Please note:

! DANGER

Electrical work on the electrical distributor

Danger to life due to electrocution!

- ▶ Disconnect the relevant electrical circuits.
- ▶ Secure against anyone switching on the device again.
- ▶ Check that there is no voltage present on the system.
- ▶ Only authorised electricians are permitted to carry out electrical work.

3 Programming the WM 271

The power meter WM 271 can be programmed with a touch display.

3.1.1 Mounting the touch display

Tools:

- Touch display
- Screwdriver

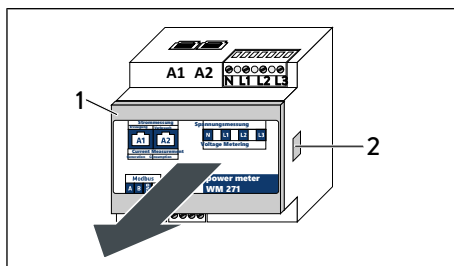


Figure 1: Removing the front cover

- | | |
|---|--------------------------------|
| 1 | Front cover of the power meter |
| 2 | Clip to remove the front cover |

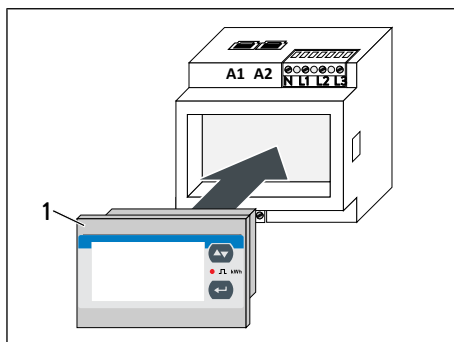


Figure 2: Inserting the touch display

- | | |
|---|---------------|
| 1 | Touch display |
|---|---------------|

▶ Press the clips (2) on both sides of the power meter.

You might use a small screwdriver.

▶ Remove the front cover (1).

▶ Insert the touch display into the power meter.

▶ Supply the power meter with energy.

3.1.2 Changing to programming mode

After mounting the touch display the power meter is set to display mode. Values are shown on the display but can not be changed.

To change values the mode of the power meter must be changed to programming mode.

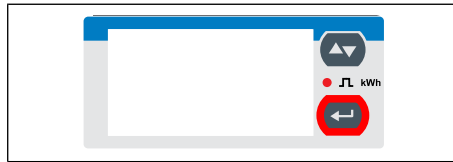



Figure 3: Touch display

► Press  for at least 3 seconds.

The PASS ? screen appears.



Figure 4: Password entry screen



The password needs to be entered. The default password is 0.

► Press  for 3 seconds.

The CnGPASS screen appears.

The power meter is now in programming mode.


3.1.3 Using the touch display in programming mode

The touch display can be operated by using the buttons  and .

Navigation on the touch display



Figure 5: CnGPASS screen

You can navigate from the CnGPASS screen to the desired programming screen by pressing the  key.

Changing values in the programming mode

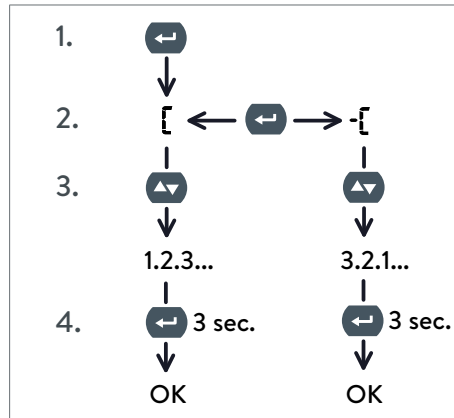


Figure 6: Procedure for changing values

1. Changing of values becomes possible by pressing the key. The symbol appears on the touch display.
2. The algebraic sign can be changed by pressing the key again. The selected value is increase if is selected and reduced if is selected.
3. The desired value can be selected by pressing the key.
4. To set a selected value press the key (for about 3 seconds).

3.1.4 Leaving the programming mode

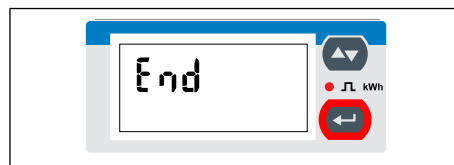


Figure 7: End screen

- ▶ Navigate to the End screen.
- ▶ Press to leave the programming mode.

The power meter is now set to display mode.

3.2 Programming page Easy Connection (EC)

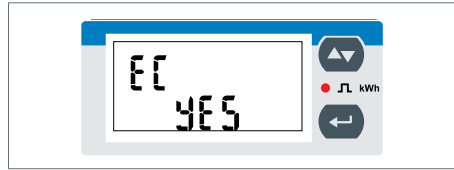


Figure 8: EC screen

On this programming page the Easy Connection (EC) function can be activated/deactivated. This function is used to determine whether or not the energy flow direction is taken into account. The EC function is activated by default.

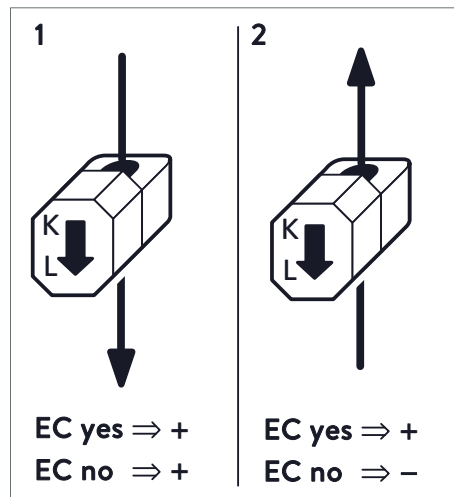


Figure 9: Case 1 (left): the energy flow in the conductor is from K to L /

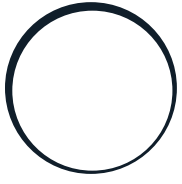
Case 2 (right): the energy flow in the conductor is from L to K

Easy Connection activated (EC yes)

If Easy Connection is activated (EC yes; Default yes) it does not matter if the energy flow in the conductor is from K to L (Case 1) or vice versa (Case 2). The power meter always calculates with positive values (amounts).

Easy Connection deactivated (EC no)

If Easy Connection is deactivated (EC no) the energy flow direction determines the algebraic sign of the power. The algebraic sign of the power is positive if the energy flow in the conductor is from K to L (Case 1). In the opposite case (Case 2) the algebraic sign of the power is negative.



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