

1. Safety Information

- ⚠ Changes in the data telegram or the transmission rate affect the battery life.
- ⚠ The meter sends no data telegram after delivery ex factory. The transmission starts after the installation of the meter.
- ⓘ Detailed information for the parameterization with the service software is available in the UltraAssist user manual.

2. Description of function

The module enables the meter to communicate wirelessly with a mobile or stationary receiver using a radio frequency of 868 MHz. The module supports the OMS-compliant data transfer with individual encryption.

3. Installation and mounting

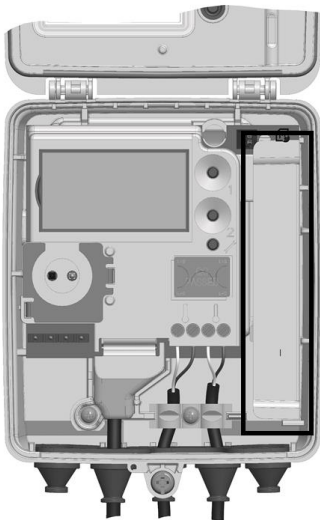


Fig. 1: Module slot

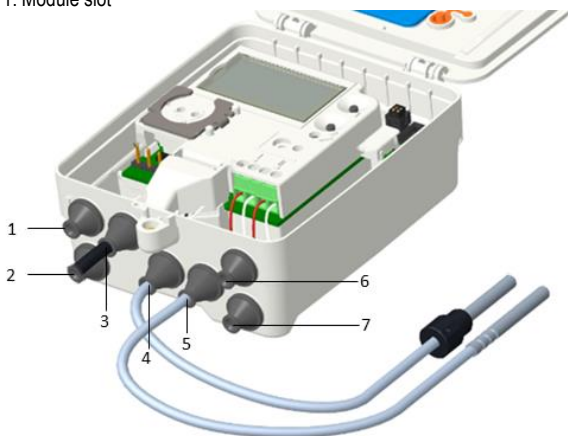


Fig. 2: Sleeves

Installing a communication module with internal antenna

The communication module is connected via a reaction-free plug, so that installation or modification is possible at any time. To install a communication module with internal antenna, proceed as follows:

- If necessary, open the housing cover by loosening the screw.
- First attach the contact surfaces of the module to the module slot.

- Gently push the module in.
- Close the housing cover by tightening the screw (min. 1 Nm) and press the housing cover tightly into place.



Note: No later than 60 seconds after installation, the meter automatically detects the inserted modules and is ready for communication.

Installing a communication module with external antenna

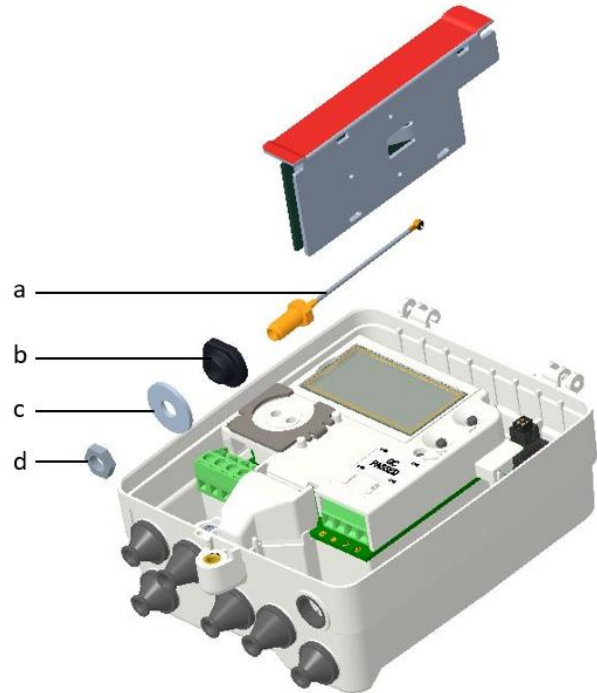


Fig. 3: Accessories external antenna

The communication module is connected via a reaction-free plug, so that installation or modification is possible at any time. To install a communication module with external antenna, proceed as follows:

- If necessary, open the housing cover by loosening the screw.
- Cut the rubber grommet (6) flush with the meter housing.
- Remove the washer and nut from the antenna connector (a).
- Put the gasket (b) on the antenna connector.
- Insert the antenna connector from the inside to the outside through the housing opening (6).
- Insert the washer (c) from the outside onto the antenna connector and screw it with the nut (d).
- Connect the cable of the antenna connector to the radio module.
- First attach the contact surfaces of the module to the module slot.
- Gently push the module in.
- Close the housing cover by tightening the screw (min. 1 Nm) and press the housing cover tightly into place.

Depending on the design of the housing, note the following additional points:

- For IP 68 versions of the housing, tighten the cable gland.

- For IP 54 versions of the housing, make sure that the grommet is seated correctly.

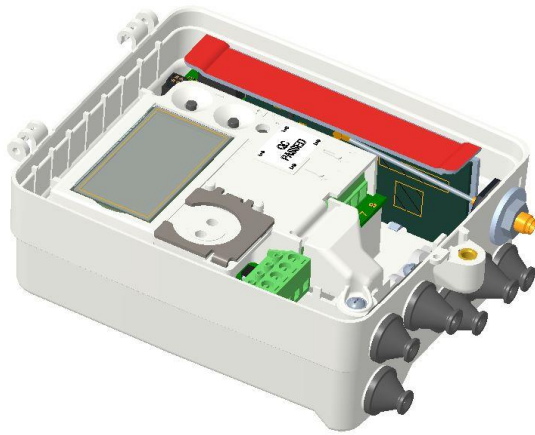


Fig. 4: Installation external antenna

4. LCD display



Note: Depending on the meter parameterization, both the display scope and the displayed data may differ from the following description.

Communication „LOOP 2“

| | |
|-----|---|
| | Head of the loop |
| ... | ... |
| | Display module type |
| | Transmission mode "Switched (off)" or "Switched (on)" |
| | |

5. Parameterization



Note: The meter parameterization may have an influence on the battery life.



Note: The meter can also be parameterized in the parameterization mode via UltraAssist using the optical interface.

5.1 Start / stop transmission



Note: After one hour of continuous flow, the transmission mode is automatically activated.

The following options are available to additionally start / stop transmission mode:

- Start transmission mode via LOOP 2.
- Start / stop transmission mode by via parameterization mode.
- Start / stop transmission mode via UltraAssist. More detailed information is available in the UltraAssist manual.

Starting transmission mode via LOOP 2

To start the transmission mode, proceed as follows:

- Press button 2 several times until



appears on the LCD.

- Press button 1 several times until



appears on the LCD.

- Press button 2 long (for more than 3 s).

The transmission is activated, and the LCD display will change



to:

The meter starts with the regular sending of the data telegram immediately.

5.2 Stop transmission mode

Call up parameterization function

Proceed as follows to parameterize the meter:

- Press the service button for 3 s until



appears on the LCD.

- Press button 2 to select the parameterization.

Select paramters

To select a parameter, proceed as follows:

- Press button 1 to advance the display.
- Press button 2 to activate the parameter you want to change.

Stop transmission mode via parameterization mode

To stop the transmission mode, proceed as follows:

- Press button 1 several times until



appears on the LCD.

- Press button 2 until appears on the LCD.

- Press button 1 until appears on the LCD.

- Press button 2 until appears on the LCD.

The transmission mode is deactivated and the meter stops transmitting immediately.

5.3 Testing the module



The function in the parameterization mode of the meter forces a radio transmission.

To test the module proceed as follows:

- Press button 1 several times until



appears on the LCD.

- Press button 2 until



appears on the LCD.



Note: Each further press of key 2 updates the send data of the data telegram by transmission from the meter and sends a radio telegram.

6. Switching to normal operation

To switch to normal operation, proceed as follows:

- Press button 1 several times until



appears on the LCD.

- To switch to normal mode, press button 2.

7. Technical data

General

| | |
|-----------------------|---|
| Standard | Open Metering System Specification Vol.2 Issue 4.2.1: 2019 EN 13757-3:2018; EN 13757-4:2019 |
| Transmission mode | T1 or C1 |
| Frequency for T1 / C1 | 868.95 MHz (min. 868.928 MHz to max. 868.972 MHz) |
| Transmission power | Min. 3.16 mW (5 dBm) to max. 25 mW (13,9 dBm) |
| Sending interval | 12 s – 24 h depending on configuration |
| Encryption | Without, security profile A (Encryption Mode 5) or security profile B (Encryption Mode 7) |

Range *)

| | |
|-----------------|----------------------|
| Free field | Up to max. 400 m |
| Inside building | E.g. horizontal 30 m |

Power supply

| | |
|-----------|-------------------------|
| Via meter | 1 – 4 batteries type AA |
|-----------|-------------------------|

Battery life

| | |
|-------------------------|-----------------------|
| Radio stationary (F000) | 16 years lifetime **) |
| Radio mobile (F001) | 16 years lifetime **) |

*) May vary depending on terrain and building structure

**) with 4 AA cells

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