

Wireless energy meter
data gateway



FSDG14

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:

-20°C up to +50°C.

Storage temperature: -25°C up to +70°C.

Relative humidity:

annual average value <75%.

Wireless energy meter data gateway for meters equipped with an IEC 62056-21 IR interface. 2 channels. Only 0.4 watt standby loss.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18mm wide, 58mm deep.

Connection to the Eltako-RS485 bus. Bus cross wiring and power supply with jumper.

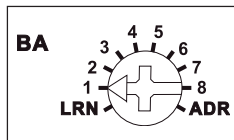
This energy meter data gateway can supply the RS485 bus with data from an energy meter equipped with an IR interface according to IEC 62056-21 and SML protocol version 1, either for forwarding to an external computer or the GFVS software.

Regular flashing of the **green LED** indicates that the FSDG14 is receiving data from the meter. Active power, up to 4 meter readings and the serial number are transferred. The serial number corresponds to the last 4 bytes (hex) of the server ID printed on the meter. The telegram is sent over the wireless building service by means of the wireless antenna module FAM14. Usage data are transmitted over channel 1 and delivery data over Channel 2. It is therefore essential for the FAM14 to issue a device address. If there is a change in active power or a meter reading, the appropriate telegram is sent immediately and all telegrams including the serial number are sent cyclically every 10 minutes.

Also display with FEA65D.

The **PCT14 PC tool** can also read out the FSDG14.

Function rotary switches



Turn the rotary switch to select the following operating modes (OBIS codes according to IEC 62056-61):

- 1: Usage meter (1.8.0) and usage power on channel 1, delivery meter (2.8.0) and delivery power on Channel 2.
- 2: Usage tariff 1 (1.8.1) and tariff 2 (1.8.2) and usage power on channel 1, delivery tariff 1 (2.8.1) and tariff 2 (2.8.2) and delivery power on channel 2.
- 3: Usage tariff 1 (1.8.1) and tariff 2 (1.8.2) and usage power on channel 1, delivery meter (2.8.0) and delivery power on Channel 2.
- 4: Usage meter (1.8.0) and usage power on channel 1, delivery tariff 1 (2.8.1) and tariff 2 (2.8.2) and delivery power on channel 2.

The link is made by using an AIR IR scanner. The scanner is attached by its fixing magnets to the IR output of the meter and is connected by its connecting cable to terminals Tx, Rx, GND and +12V.

Assign device address for the FMZ14:

The rotary switch on the FAM14 is set to position 1, its lower LED flashes red.

ADR Twisted, the green LED of the FSDG14 flashes at a low rate. After FAM14 issues the address, its lower LED lights up green for 5 seconds and the LED of the FSDG14 goes out.

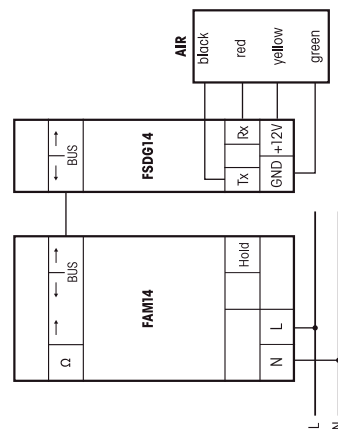
Clear FSDG14 device address:

Turn the rotary switch 8 times to right stop (turn clockwise) and back again within 10 seconds. The red LED lights up for 10 seconds and then goes out. The device address is cleared.

Send teach-in telegram:

Turn the rotary switch to **LRN**. A teach-in telegram is sent and taught-in in a display of the GFVS software.

Typical connection



Must be kept for later use!

We recommend the housing for operating instructions GBA14.

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