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Eltako ELECTRONICS

# Wireless single-phase energy meter transmitter module FWZ14-65 A

CE

**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%.

**valid for devices from production week 15/13** (see bottom side of housing)

Wireless single-phase energy meter transmitter module, maximum current 65 A. Only 0.5 watt standby loss.

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

Accuracy class B (1%). With RS485 interface.

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

It measures active energy by means of the current between input and output. The internal power consumption of 0.5 watt active power is not metered.

Like all meters without declaration of conformity (e.g. MID), this meter is not permitted for billing.

1 phase conductor with a max. current up to 65 A can be connected.

The inrush current is 40 mA. In operation the rotary switch must be set to AUTO.

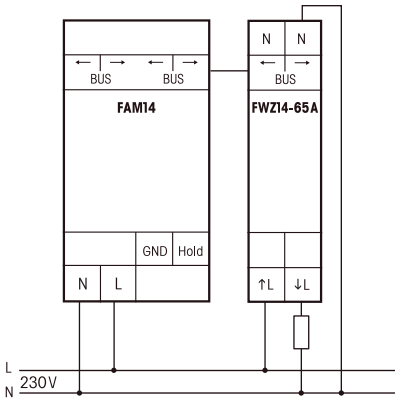
The meter reading, the current power and the serial number will be handed over to the bus – eg for forwarding to an external computer, the software GFVS 3.0 or GFVS Energy – and also to the wireless network via FAM14. To be displayed also with FEA65D.

Power consumption is indicated using a LED.

If the L input and the L output were interchanged when hooked up, a normal rate (HT)/off-peak (NT) switchover telegram is transmitted to indicate the hook-up error.

If the anticipated load exceeds 50%, maintain an air gap of ½ pitch unit to the devices mounted adjacently. Thereto included are 2 spacers DS14, a short jumper and two long jumpers.

**Typical connection**




**Technical data**

| | |
|---|---|
| Rated voltage<br>Extended range | 230 V, 50 Hz,<br>-20%/+15% |
| Reference current $I_{ref}$<br>(Limiting current $I_{max}$) | 10 (65) A |
| Internal consumption active power | 0.5 W |
| Accuracy class ±1% | B |
| Inrush current according to accuracy class B | 40 mA |
| Maximum conductor cross section | L terminals 16 mm²<br>N terminals 6 mm² |

The FAM14 must issue a device address for the FWZ14-65 A so that FWZ14-65 A telegrams can be transferred to the bus.

**Issue FWZ14 device address:**
Turn the rotary switch on the FAM14 to Pos. 1 where the lower LED lights up red. Turn the rotary switch of the FWZ14 to LRN. The LED of the FWZ14 flashes at a low rate.

After the address is issued by the FAM14, its lower LED flashes green for 5 seconds and the LED of the FWZ14 goes out.

**Clear FWZ14 device address:**
Within 10 seconds, turn the rotary switch six times to CLR (turn anticlockwise) and turn back again. The LED lights up for 5 seconds and goes out. The device address is cleared.

When the device is in operation, the rotary switch of the FWZ14-65 A must point to AUTO. The FAM14 must be operated in Pos. 2 or Pos. 5 so that FWZ14-65 A telegrams can be sent to the Eltako wireless network.

**Wireless telegrams:**
A telegram is transmitted within 60 seconds if the power status changes by min. 10 percent. A change in meter reading is transmitted immediately.

A data telegram with meter reading, power and serial number will automatically and cylically be sent every 10 minutes after switching on the supply voltage.

**Teach-in telegram:**
turn the rotary switch briefly to LRN and then turn back to AUTO. A teach-in telegram and a data telegram will be sent. The FWZ14 can be taught-in into the GFVS software 3.0 or FSV-Energy or into a display FEA55D or FEA55LED.

The FWZ14 can be read out using the PCT14. The serial number and the meter reading are displayed.

**Caution: Do no forget 'Disconnect link to FAM'. While the link exists from the PCT14 to the FAM14, no wireless commands are executed and no wireless telegrams are sent.**

**Must be kept for later use!**
We recommend the housing for operating instructions GBA14.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