



Three-phase energy meter DSZ14DRS-3x65A with display and MID approval



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

Temperature at mounting location: -25°C up to +55°C.

Storage temperature: -25°C up to +70°C. Relative humidity: annual average value <75%.

Three-phase energy meter.

Maximum current 3x65 A. Standby loss 0,8 W at L1 and only 0,5 W at L2 and L3 each.

Modulair device for DIN-EN 60715 TH35 rail mounting in distribution cabinets with IP51 protection class.

4 modules = 70 mm wide and 58 mm deep.

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

It measures active energy by means of the current between input and output. The internal power consumption of 0,8 W or 0,5 W active power per path is neither metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 65 A can be connected. The inrush current is $40\,\text{mA}$.

The terminals †L1 and N must always be connected.

Connection via a FBA14 to the Eltako RS485 bus with a 2-wire shielded bus cable (telephone cable). The meter reading and the momentary capacity are transferred to the bus - e.g. for transfer to an external computer of the GFVS 3.0 Software - and is also transferred to the wireless network via the FAM14. Display also using FEA65D.

The 7 segment LC display is also legible twice within a period of 2 weeks without power supply.

Power consumption is indicated using a LED next to the display flashing 1000 times per KWh.

Designed as standard for using as double-tariff meter: Switch over to a second tariff by applying 230V to terminals E1/E2.

On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. The display then shows the total active energy per tariff, the active energy of the resettable memory RS1 or RS2 as well as the instantaneous values of consumption, voltage and current per phase.

Error message (false)

When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

A device address for the DSZ14 has to be assigned from the FAM14, to hand the telegrams of the DSZ14 over to the bus.

Assian device address for the DSZ14:

Normal display: Briefly press the SELECT button, the backlight is switched on. If the SELECT button is pressed longer than 3 seconds, the device address appears in the display. Now turn the rotary switch on the FAM14 to position 1 within 60 seconds, its lower LED flashes red. Once the address is assigned by the FAM14, its lower LED lights green for 5 seconds and the normal display appears again on the DSZ14.

Delete device address of the DSZ14:

Normal display: Briefly press the SELECT button, the backlight is switched on. If the SELECT button is pressed longer than 3 seconds, the device address appears in the display. Now hold the SELECT button for 5 seconds, the device address is set to zero.

Transmit teach-in telegram:

Normal display: Briefly press the SELECT button, the backlight is switched on. If the SELECT button is pressed longer than 3 seconds, the device address appears in the display.

By briefly pressing the MODE button, a teach-in telegram and a data telegram is sent. The FAM14 has to be operated in position 2 or 5, to sent the telegrams of the DSZ14 into the Eltako Wireless Building.

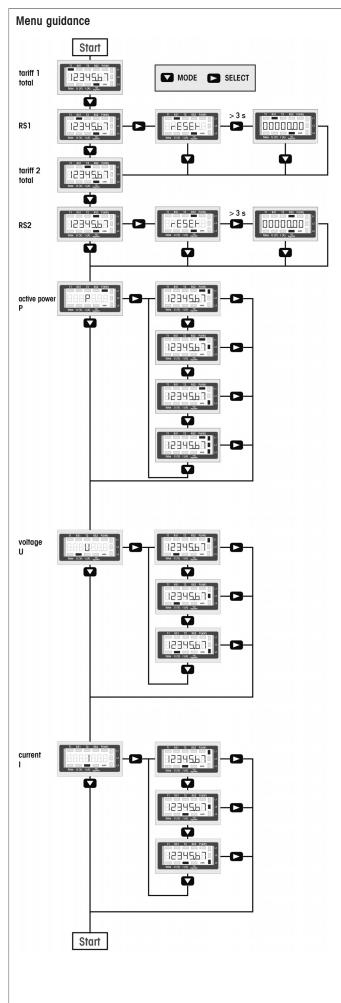
A data telegram containing meter reading, power and serial number is automatically sent and cyclically transmitted every 10 minutes after switching on the supply voltage.

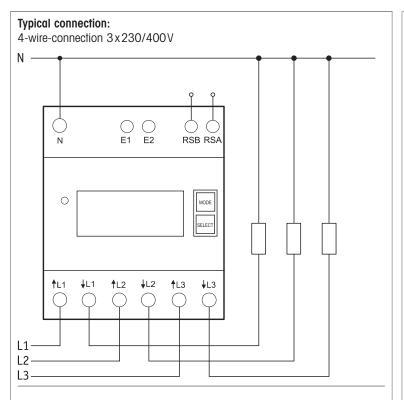
If you change the meter reading by 0.1 kWh, the meter reading telegram is sent.

Within 20 seconds after a change in power of at least 10%, a power telegram is sent.

The DSZ14 can be read-out with the PC tool PCT14.

The serial number, meter reading tariff 1, resettable meter reading tariff 1, meter reading tariff 2 and resettable meter reading tariff 2 will be displayed.





Tec	hni	cal c	lata

3x230/400V, 50Hz, -20%/+15%
I_{max} 3x10(65)A
0,8W at L1 and only 0,5W at L2 and L3
LC display 7 digits, from 1 or 2 digits after the decimal point
В
class B 40 mA
-25/+55°C
RS485 bus Series 14
Terminal cover claps
IP50 for mounting in distribution cabines with protection class IP51
N and L terminals 16 mm², RSA/RSB terminals 6 mm²
CH-MI003-08009
class M2
ons class E2

File name	FQKZ115		
Product	Calibrated electronic RS485 three-phase energy meter with display and MID approval		
Type designation	DSZ14DRS-3x65A		
EC type examination certification	CH-MI003-08009 ate		
Eltako GmbH, D - 70	0736 Fellbach, herewith declares, on their own responsibility tha		
the energy meter wh	hich this certificate refers to, is in accordance with the following		
standards:			
EN 50470 parts	1 and 3: October 2006 (electronic meters)		
Directive 2004/22/Edinstruments	G of the European parliament and of the Council on measuring		
Annex I, essenAnnex MI-003,	active electrical energy meters		
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• Annex MI-003,	active electrical energy meters		
• Annex MI-003, Conformity	active electrical energy meters Certification body METAS-Cert, no. 1259		

Ulrich Ziegler, General Manager

Must be kept for later use!

We recommend the housing for operating instructions GBA14.

Eltako GmbH

signed

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45/2014 Subject to change without notice