

Single-phase energy meter
WSZ12DE-65A without approval



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%.

Maximum current 65A. Standby loss 0.5 watt only.

Modular device for DIN-EN 60715 TH35 rail mounting.

1 module = 18mm wide and 58mm deep.

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

This single-phase energy meter measures active energy by means of the current between input and output. The internal power consumption of 0.5 watt active power is neither metered nor indicated. Like all meters without approval (e.g. MID) this meter is not permitted for billing.

Every 30 seconds, the display switches for 5 seconds from the accumulated active energy in kWh to the momentary consumption in watts.

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

If the anticipated load exceeds 50%, maintain an air gap of ½ pitch unit to the devices mounted adjacently. If necessary, use spacer DS12.

The inrush current is 40mA.

The display can only be read when the power supply is on. However, the consumption is saved to a non-volatile memory and is displayed immediately after power restoration.

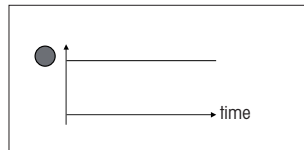
Two N terminals for secure cross wiring of several counters.

The flashing decimal point is dependent on power consumption and indicates that power is being consumed. If the connection is incorrectly wired, the

display shows the message 'false'.

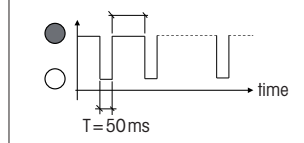
The digital display has 7 digits. Two decimal places are indicated up to 99 999.99 kWh. Above 100 000.0 kWh there is only one decimal place.

The power consumption is displayed with a decimal point.



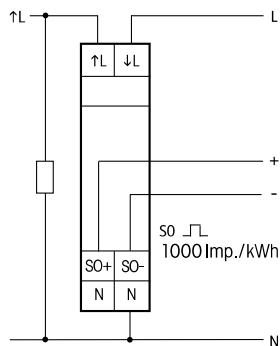
Energy meter connected, no power consumption

T = depends on power consumption 1000 Imp./kWh



Energy meter correctly connected, with power consumption

Typical connection



Extended range	-20%/+15%
Reference current I_{ref} (Limiting current I_{max})	10(65) A
Internal consumption	0.5 W
Active power	
Display active power	LC display 7 digits, therefrom 1 or 2 digits after the decimal point
Accuracy class $\pm 1\%$	B
Inrush current according to accuracy class B	40 mA
Operating temperature	-10/+55°C
Interface	Pulse interface SO according to DIN EN 62053-31, potential free by opto-coupler, max. 30V DC/20 mA and min. 5V DC, impedance 100 ohms, pulse length 50 ms, 1000 Imp./kWh
Terminal	With sealing cap PK18. cover sealable For the current path 1 sealing cap is required
Protection degree	IP50 for mounting in distribution cabinets with protection class IP51
Maximum conductor cross section	L terminals 16 mm ² N and SO terminals 6 mm ²

Must be kept for later use!

We recommend the housing for operating instructions GBA12.

Eltako GmbH

D-70736 Fellbach

+49 711 94350000

www.eltako.com