

Single-phase energy meter WSZ12D-32 A with display,
with MID approval

CE

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%.

Maximum current 32A. Standby loss 0.4 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 as standard.

This single-phase energy meter measures active energy by means of the current
between input and output. The internal power consumption of 0.4 watt active
power is neither metered nor indicated.

1 phase conductor with a max. current of up to 32A can be connected.
The start current is 20 mA.

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

Two N terminals for secure cross wiring of several counters.

Power consumption is shown by a bar flashing at a rate of 1000 times per
kWh.

Error message

In case of a connection error, the background lighting of the display flashes.

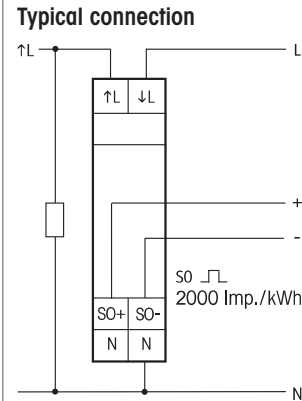
When the display is running, it shows the total active energy and the display
bars are in the kWh position.

Press the button under the display to switch on the background lighting. Then
you can browse through the menu. The bar moves to the current display: the
cumulative power of the resettable memory RS (kWh), the current power P (kW),
the current voltage U (V) and the present current I (A) will be displayed
successively. In the end it will be browsed to the active energy display (kWh).

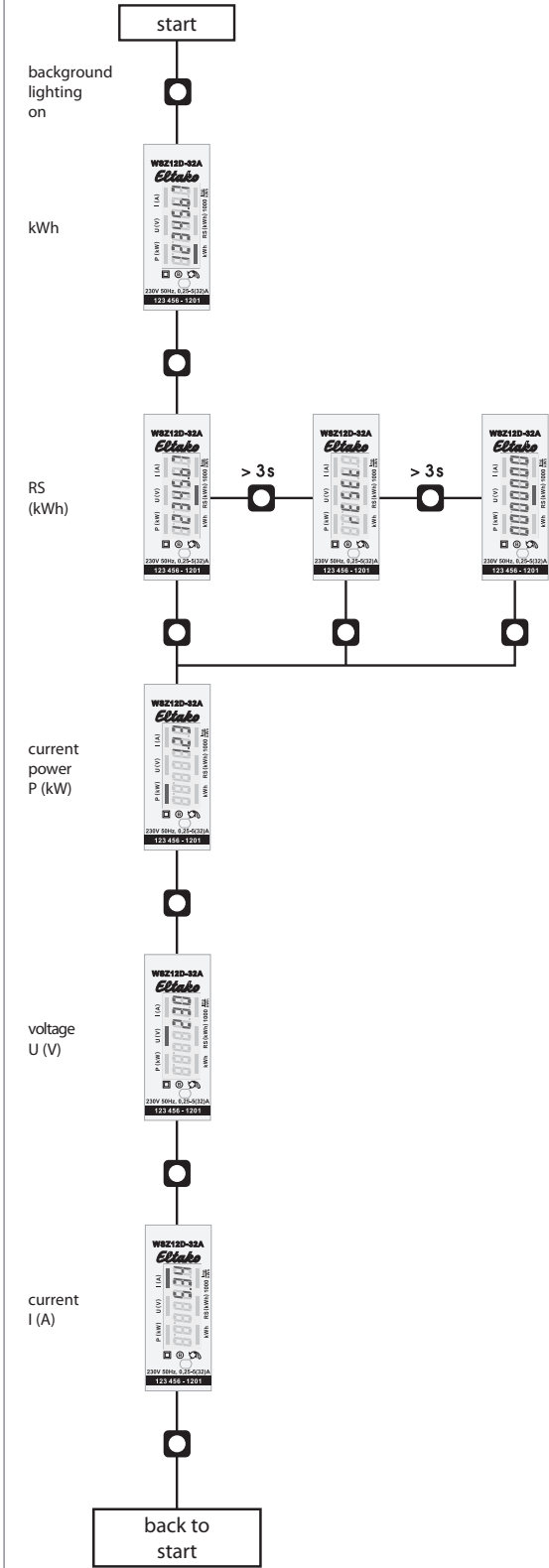
The program automatically returns back to normal display (kWh) 20 seconds
after pressing the button and the background lighting will be switched off.

The memory RS is reset by pressing the button for longer than 3 seconds while
the memory is displayed. Then confirm the message 'reset' by pressing the
button again for 3 seconds.

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



Menu guidance WSZ12D



EC DECLARATION OF CONFORMITY

File name	FQKZ052-CR
Product	Single-phase energy meter with MID approval
Type designation	WSZ12D-32A
EC-type examination certificate	0120/SGS0272

The manufacturer herewith declares, on his own responsibility that the designated products which this certificate refers to, are in accordance with the following harmonized standards or normative documents as well as with the following Directives of the European Parliament and of the Council (relevant version):

DIN EN 50470	parts 1 and 3 : May 2007 (electronic meters)
2014 / 32 / EU	measuring instruments
2014 / 30 / EU	electromagnetic compatibility
2011 / 65 / EU	restriction of the use of certain hazardous substances (RoHS Directive)

The designated products are placed on the market by ELTAKO GmbH ,
Hofener Straße 54 , 70736 Fellbach, Germany.

Notified body SGS United Kingdom Limited , No. 0120
Unit 202B Worle Parkway, Weston-super-Mare, BS22 6WA. UK

Manufacturer Shenzhen Chuangren Technology Co. Ltd.
Building 33, No.3 Industrial Area, Mashantou, Gongming Street,
New Guangming District, Shenzhen City, Guangdong Province, 518106, China

Place, Date Shenzhen, 21 November 2016

Signature



This declaration proves the compliance with the above-mentioned EC Directives but it does not include any assurance of properties.
Security advices of the provided product information have to be noticed.

Technical data

Rated voltage, extended range	230V, 50Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	5 (32) A
Internal consumption active power	0.4 W
Display	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	20 mA
Ambient temperature limits	-25/+55°C
Interface	potential free by opto-coupler, max. 30V DC/20mA and min. 5V DC. SO: pulse output described in DIN EN 62053-31, impedance 100 Ohm, pulse length 30ms, 2000 Imp./kWh
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section ¹⁾	L terminals 16 mm ² N and SO terminals 6 mm ²
Recommended torque ²⁾	
L terminals	1,5 Nm (max. 2,0 Nm)
N and SO terminals	0,8 Nm (max. 1,2 Nm)
EC type examination certificate	0120/SGS0272
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions class	class E2

¹⁾ The carrying capacity of cables and wires is defined in DIN VDE 0298-4.

²⁾ The torques for screw terminals are mentioned in DIN EN 60999-1.

To avoid damages at the energy meter, the recommended torque values for each terminal must not be exceeded!

Eltako GmbH

D-70736 Fellbach

Technical Support English:

☎ Michael Thünte +49 176 13582514

✉ thuente@eltako.de

☎ Marc Peter +49 173 3180368

✉ marc.peter@eltako.de

eltako.com