

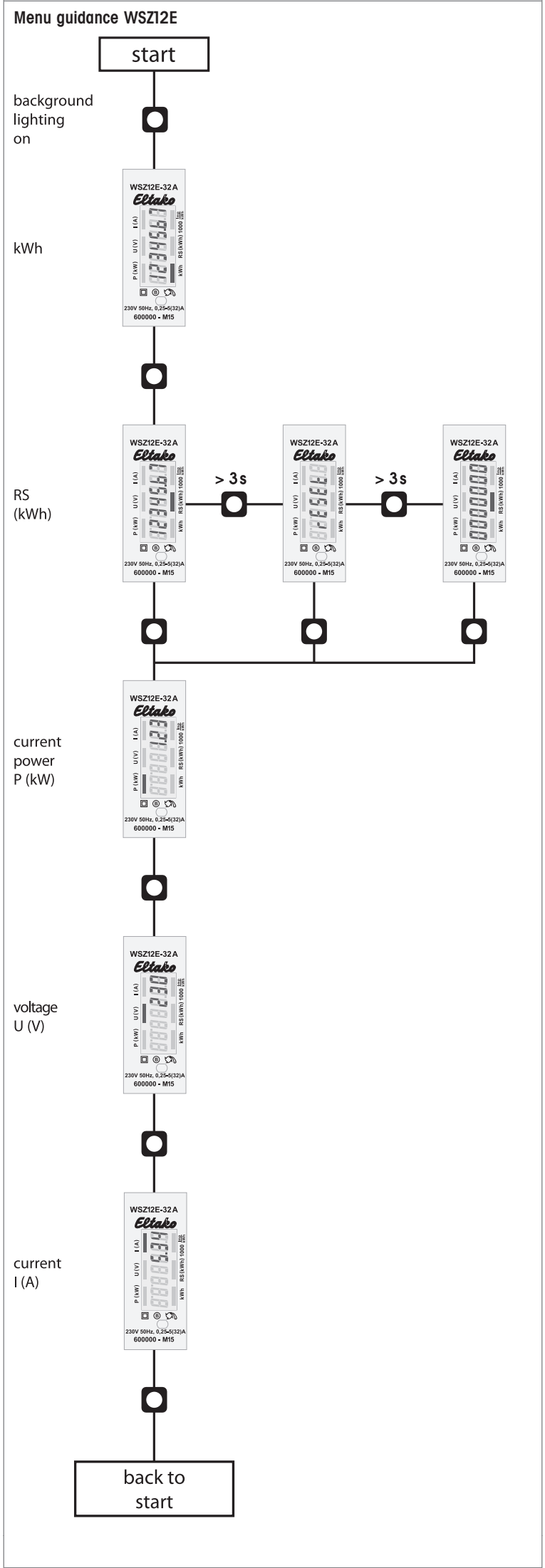
Single-phase energy meter WSZ12E-32 A with display,  
with MID approval

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

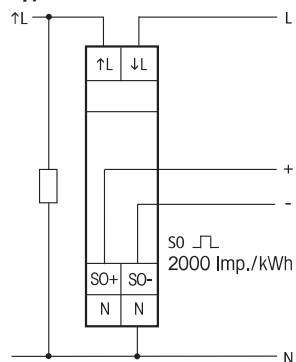
Temperature at mounting location: -25°C up to +55°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity: annual average value <75%.

**Maximum current 32 A. Standby loss 0.4 watt only.**  
Modular device for DIN-EN 60715 TH35 rail mounting.  
1 module = 18 mm wide and 58 mm 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 32 A 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. In the event of a connection error the bar flashes at a high rate (2 times  
per second).  
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.**

|   |  |
|---|--|
| Technical data  |  |
| Rated voltage, extended range   | 230V, 50Hz, -20%/+15%  |
| Reference current $I_{\text{ref}}$ (Limiting current $I_{\text{max}}$ ) | 5 (32) A   |
| Internal consumption active power                                       | 0.4 W  |
| Display   | LC display 7 digits,<br>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,<br>max. 30V DC/20mA and min. 5V DC.<br>SO: pulse output described in DIN EN 62053-31,<br>impedance 100 Ohm, pulse length 30ms, 2000 Imp./kWh |
| Protection degree   | IP50 for mounting in distribution cabins<br>with protection class IP51   |
| Maximum conductor cross section   | L terminals 16mm <sup>2</sup><br>N and SO terminals 6mm <sup>2</sup>   |
| EC type examination certificate   | TCM 221/14 - 5207  |
| Mechanical environmental conditions                                     | class M1   |
| Electromagnetic environmental conditions class                          | class E2   |



## Typical connection



## EC DECLARATION OF CONFORMITY

File name FQKZ056-LDE

Product **Single-phase energy meter with MID approval**

Type designation **WSZ12E-32A**

EC-type examination TCM 221/14 - 5207  
certificate

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 ( EMC Directive )  
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, D-70736 Fellbach.

Notified body ČMI Český metrologický institut , No. 1383  
Okružní 31, CZ – 638 00 Brno

Manufacturer Shenzhen Lodian Electronics Co., Ltd.  
3/F, Building 107, 1<sup>st</sup> Nanyou Industrial Zone  
Nathan District, Shenzhen, PC518054 China

Place, Date Shenzhen, 15 March 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.

## Must be kept for later use!

We recommend the housing for operating instructions GBA12.

## Eltako GmbH

D-70736 Fellbach

### Technical Support English:

☎ Michael Thünte +49 176 13582514

✉ thünte@eltako.de

☎ Marc Peter +49 173 3180368

✉ marc.peter@eltako.de

eltako.com

15/2016 Subject to change without notice.