

28 305 015

Three-phase energy meter DSZ15WD-3x5A 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%.

CT operated energy meter with settable CT ratio and MID.

Maximum current 3x5 A. Standby loss 0.5 watt per path only.

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 SO interface as standard.

This three-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 per path is neither metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 5 A can be connected.

The inrush current is 10 mA. The N terminal must always be connected.

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

Power consumption is shown by a bar flashing at a rate of 10 times per kWh.

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, the active energy of the resettable memory as well as the instantaneous values of consumption, voltage and current per phase.

The CT ratio can also be set. It is set to 5:5 at the factory and blocked with a bridge over the terminals which are marked with 'JUMPER'. To adjust the CT ratio to the installed transformer, remove the bridge and reset the energy meter according to the the display guide, right on this manual. Then block it again with the bridge. Adjustable current transformer ratios: 5:5, 50:5, 100:5, 150:5, 200:5, 250:5, 300:5, 400:5, 500:5, 600:5, 750:5, 1000:5, 1250:5 and 1500:5.

Error message (false)

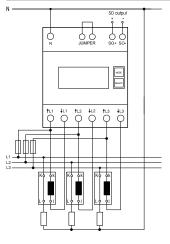
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

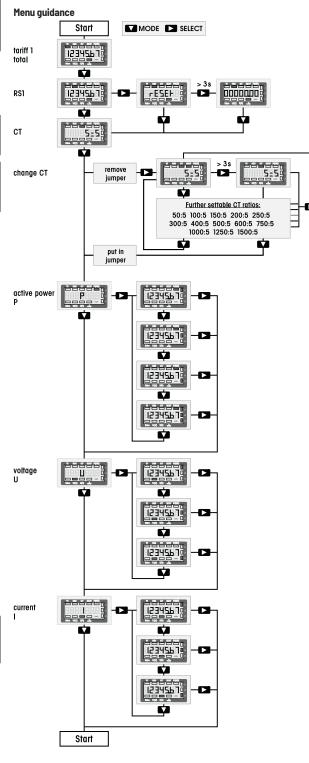
Important! Before working on the current transformers disconnect the voltage paths of the energy meters.

Typical connection:

4-wire-connection 3x230/400 V

Connect the current transformer terminals on the secondary part to the phase cunductors which are metered. These connections for the voltage supply of the energy meters must be secured according to the local installation regulations.









Technical data

Rated voltage, extended range	3x230/400 V, 50 Hz, -20%/+15%
Reference current / _{ref} (Limiting current	: / _{max}) 3x0.05 - 5(6)A
Internal consumption active power	0.5W per path
Display	LC display 7 digits, therefrom 1 digit after the decimal point
Accuracy class ±1%	В
Inrush current according to accuracy o	class B 10 mA
Operating temperature	-25/+55°C
Interface	Pulse interface SO according to DIN EN 62053-31, potential free by opto-coupler, max. 30 V DC/20 mA and min. 5 V DC, impedance 100 ohms, pulse length 30 ms, 10 lmp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabines with protection class IP51
Maximum conductor cross section ¹⁾	N and L terminals 16 mm2, S0 terminals and jumper terminals 6 mm2
Recommended torque ²⁾	L- and N terminals 1,5 Nm (max. 2,0 Nm) S0 terminals and jumper terminals 0,8 m (max. 1,2 Nm)
EC type examination certificate	0120/SGS0314
The energy meter is used indoors.	
Mechanical environmental conditions	class M1
Electromagnetic environmental condit	ions class E2

 $^{\scriptscriptstyle 1)}$ $\,$ 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!

EC DECLARATION OF CONFORMITY	
Product	Three-phase energy meter with MID approval
	CT operated energy meter with settable CT ratio
Type designation	DSZ15WD-3x5A
EC-type examination certificate	0120/SGS0314
which this certificate r	ewith declares, on his own responsibility that the designated products efers to, are in accordance with the following harmonized standards or as well as with the following Directives of the European Parliament and int version):
DIN EN 50470 part	1: 2019-08 and part 3: 2020-03 (electronic meters)
2014 / 32 / EU mea	isuring instruments
	tromagnetic compatibility
2011 / 65 / EU restr	riction of the use of certain hazardous substances (RoHS Directive)
The designated produ	icts are placed on the market by ELTAKO GmbH ,
Hofener Straße 54, 7	0736 Fellbach, Germany.
Notified body SGS	S Fimko OY, No. 0598
Take	omotie 8, FI-00380 Helsinki, Finland
Manufacturer She	nzhen Chuangren Technology Co. Ltd.
Build	ding 33, No.3 Industrial Area, Mashantou, Gongming Street,
New	v Guangming District, Shenzhen City, Guangdong Province, 518106, China
Place, Date She	nzhen, 25 February 2021
Signature	At A
include any assurance	s the compliance with the above-mentioned EC Directives but it does not a of properties. a provided product information have to be noticed.

Must be kept for later use!

We recommend the housing for operating instructions GBA14.

Eltako GmbH

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