



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 3x5A. Standby loss 0.5 watt per path only.

Modular device for DIN-EN 60715 TH35 rail mounting in distribution cabinets with IP51 protection class.
4 modules = 70mm wide and 58mm 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 5A can be connected.
The inrush current is 10mA. 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)

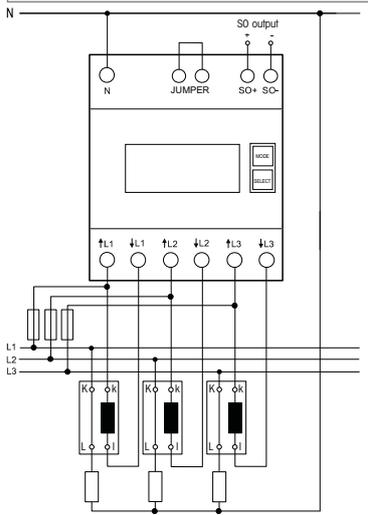
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

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

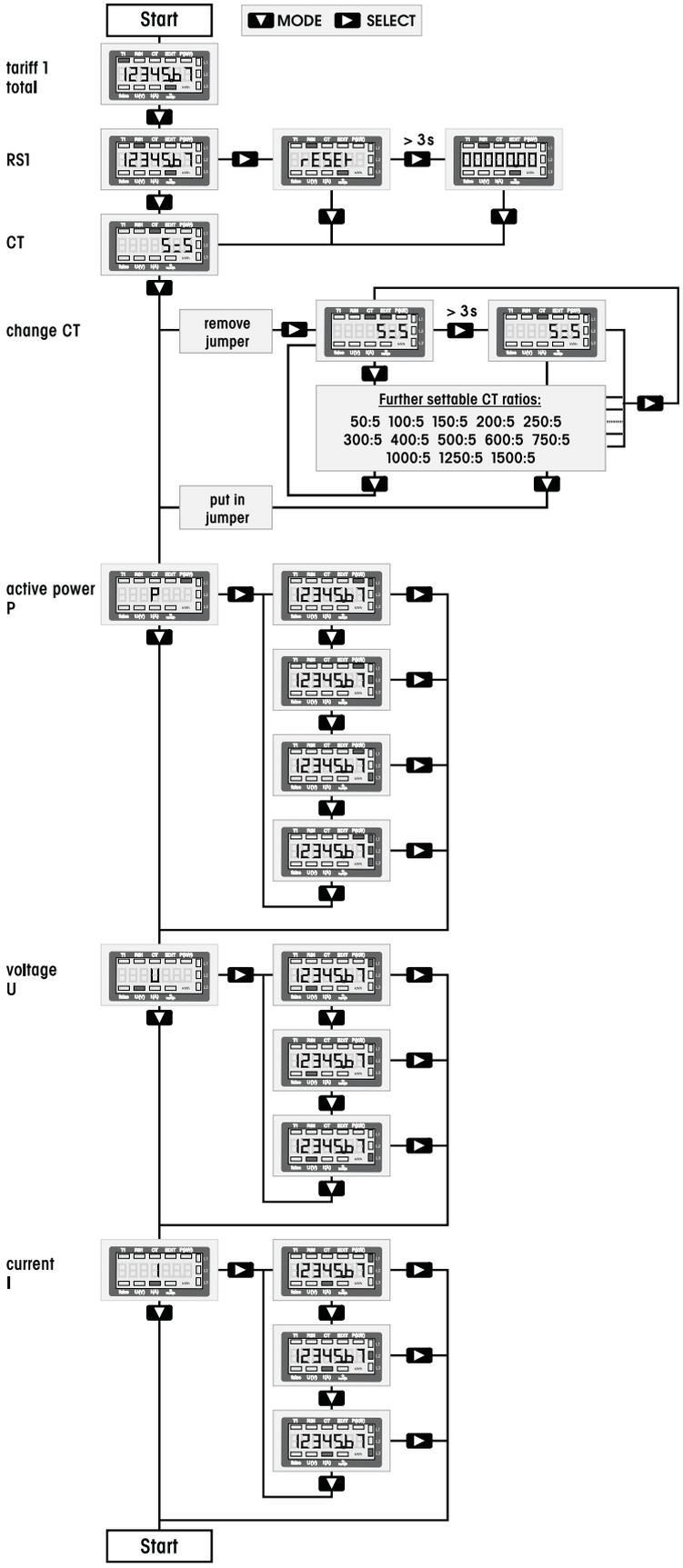
Typical connection:

4-wire-connection 3x230/400V

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



Menu guidance



Technical data

| | |
|---|---|
| Rated voltage, extended range | 3x230/400V, 50Hz, -20%/+15% |
| Reference current I_{ref} (Limiting current I_{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 $\pm 1\%$ | B |
| Inrush current according to accuracy class B | 10mA |
| Operating temperature | -25/+55°C |
| Interface | Pulse interface SO according to DIN EN 62053-31, potential free by opto-coupler, max. 30V DC/20mA and min. 5V DC, impedance 100 ohms, pulse length 30ms, 10Imp./kWh |
| Terminal cover sealable | Terminal cover claps |
| Protection degree | IP50 for mounting in distribution cabins with protection class IP51 |
| Maximum conductor cross section ¹⁾ | N and L terminals 16mm ² , SO terminals and jumper terminals 6mm ² |
| Recommended torque ²⁾ | L- and N terminals 1,5Nm (max. 2,0Nm) SO terminals and jumper terminals 0,8Nm (max. 1,2Nm) |
| EC type examination certificate | 0120/SGS0314 |
| The energy meter is used indoors. | |
| Mechanical environmental conditions | class M1 |
| Electromagnetic environmental conditions | 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!

EC DECLARATION OF CONFORMITY

| | |
|--|--|
| File name | FQKZ067-CR |
| 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 |
| 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, 08 September 2017 |
| 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.

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