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ENERGY METER three-phase

LE-02d CT

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Purpose

LE-02 CT is a static (electronic) indicator calibrated electricity three-phase alternating current

system.

The indicator is designed to work with current transformers with primary current Ip from 5 ÷ 6000A and secondary current 5A. The maximum measured current is determined by the value of the primary current Ip current transformer used. You can set the index value of the gear used transformers, allowing you to identify the actual value taken by the electricity system.

Functioning

A special electronic system under the influence of current flow and applied voltage in each

A special electronic system under the influence of current flow and applied voltage in each phase generates pulses in proportion to the electricity consumed in this phase. Phase energy consumption is indicated by flashing the corresponding LED (1, 12, 13). The sum of the three phases of pulses indicated by a flashing LED is converted to energy taken in the entire three-phase system, and its value is determined by the segment LOD display. Stored in the memory index values transformer primary current Ip possible to apply. Choosing the right value compatible with the values of external transformers automatically sets the correct ratio, which is calculated according to the actual value of the collected energy. The LCD displays the actual value of the energy consumed in the format depending on the selected each. selected gear.

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- Disconnect the power supply.
 The indicator mounted on a rail in the distribution box
- 3. Using a screwdriver, remove the screws and remove the front shield meter terminals 4. Connect the voltage-controlled phase, following the indications to terminals 1 (L1),
- 2 (L2), 3 (L3),
- 5. Connect the cable to the terminal N 4.
- Transformers fasten on the phase conductors and secondary outputs connected in accordance with the indications to the terminals 10-9 (L1), 8-7 (L2), 6-5 (L3).



Do not tighten the clamps without the inserted wire. Doing so may damage the lift mechanism terminal or a plastic shield that terminal.

- 7. Additional pulse receiver connected to terminals 20(+) 21(-). The terminals are located under the top shell meter terminals.

 NOTE! Additional pulse receiver is not required.
- 8. Pull the cap setting button transmission. Program indicator. Slide the cap. NOTE! The shell has a hole for safety seal assumption.
- 9. Install shield meter terminals.

Technical data

reference voltage
base current
maximum current
secondary current transformer
secondary minimum current
accuracy in accordance (with IEGS1036)
own power consumption 3×230/400V+N 3×1,5A 3×6A 5A 0,04A 1st class accuracy in accordance (with own power consumption load current inputs number of characters LCD indication range meter constant (for 5/5A) current consumption signal read-out signalling 50+ SO- pulse output 50+ SO- connection voltage SO+ SO- pulse time working temperature terminal dimensions <10VA; <2W 0,4VA depending on the gear 12000 pulses/kWh 3×red LED red LED open collector <30V DC <30V DC <27mA depending on the gear 35ms -20÷55°C screw terminals 16mm² 4,5 modules (75mm) on TH-35 rail IP20 dimensions mounting degree of protection - 3 -

Pulse output

The indicator has a pulse output SO+ SO-. This allows you to connect a pulse meter-reading (SO) pulses generated by the counter. For proper operation of the indicator is not required to connect additional devices. Constant pulse counter is 12000 pulses/kWh for maximum input current meter, or the secondary current transformer (SA). When using a dedicated transformer the number of pulses per 1 kWh is calculated from the formula $(12000 \times 5)/1p$,

Programming
Transmission programmable using the button located under the lower casing meter terminals.



For safety reasons, the data logging function can make the gear set only once.

CT Current values Ip inscribed in memory device: 5, 25, 40, 50, 60, 75, 80, 100, 120, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000, 4000, 5000, 6000.

Another pressing the programming button jumps to the next value

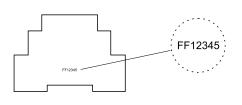
After switching to the desired value in order to confirm the selected value to hold the key

Sealing

The indicator has the possibility of sealing guards input and output terminals do to prevent circumvention of the counter.

Counter number

The meter is marked with an individual serial number to uniquely identify it. The marking is indelible (laser engraver).



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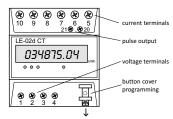
The method of projection data depending on the settings gear

Format Current lp

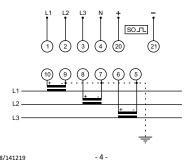
000000.00 5: 25: 40: 50: 60.

3, 23, 40, 33, 00 75; 80; 100; 120; 150; 200; 250; 300; 400; 500; 600. 800; 1000; 1200; 1500; 1600; 2000; 2500; 3000; 4000; 5000; 6000. 0000000

I/O description



Wiring diagram



D141028/141219