F&F Filipowski sp. j.
Konstantynowska 79/81 95-200 Pabianice
phone/fax: (+48 42) 215 23 83 / 227 09 71 POLAND
http://www.fif.com.pl e-mail: fif@fif.com.pl

ELECTRIC ENERGY METER
three-phase

LE-02d

5 903121 592686

Compliance

MID Directive 2004/22/EC
Standard EN50470-1/3

Purpose

LE-02d is a static (electronic) indicator calibrated electricity three-phase alternating current in the system directly.

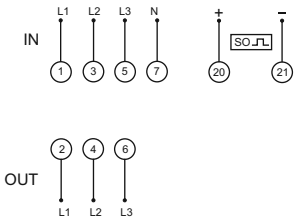
Functioning

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 (L1, L2, L3). The sum of the pulses of the three phases is indicated by a flashing LED (800pulses / kWh) shall be converted to energy, taken throughout the three-phase system, and its value is determined by the segment LCD display. Decimal represent the hundredths (.01 KWh = 10Wh).

Technical data

reference voltage		3×230/400V+N
base current		5A
maximum current		63A
minimum current		0.04
accuracy class		1
own power consumption		<10VA; <2W
indication range		0÷999999.99kWh
meter constant	(1.25Wh/pulse)	800pulses/kWh
current consumption signal		3×red LED
read-out signalling		red LED
SO+ SO- pulse output		open collector
SO+ SO- connection voltage		<30V DC
SO+ SO- current connection		<27mA
SO+ SO- constant	(1.25Wh/pulse)	800pulses/kWh
SO+ SO- pulse time		35ms
working temperature		-20÷55°C
terminal		16mm² screw terminals
dimensions		4.5 modules (75mm)
mounting		on TH-35 rail
protection level		IP20

Wiring diagram



Pulse output

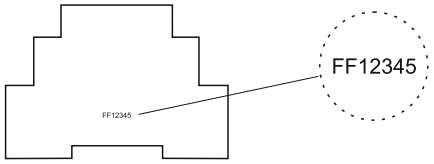
The indicator has a pulse output SO+ SO-. This allows you to connect another device pulse-reading (SO) pulses generated by the counter.
For proper operation of the meter is not required to connect additional devices.

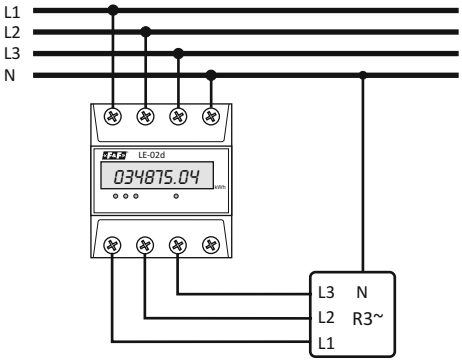
Sealing

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

Counter number

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





Assembly

1. Disconnect the power supply.
2. 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. Power supply connected to the terminals 1 (L1), 3 (L2), 5 (L3).
5. Measuring circuit or a single receiver connected to terminal 2 (L1), 4 (L2), 6 (L3).
6. Connect the cable to the terminal N 7.
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. Install shield meter terminals.

D160309