

ELECTRIC ENERGY METER
 single-phase

LE-01d

WARRANTY. The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a complaint can be found on the website: www.fif.com.pl/reklamacje



Do not dispose of this device to a garbage bin with other unsorted waste!
 In accordance with the Waste Electrical and Electronic Equipment Act any household electro-waste can be turned in free of charge and in any quantity to a collection point established for this purpose, as well as to the store in the event of purchasing new equipment (as per the old for new rule, regardless of brand). Electro-waste thrown in the garbage bin or abandoned in the bosom of nature pose a threat to the environment and human health.



Compliance

MID Directive / Standard EN50470-1/3

Purpose

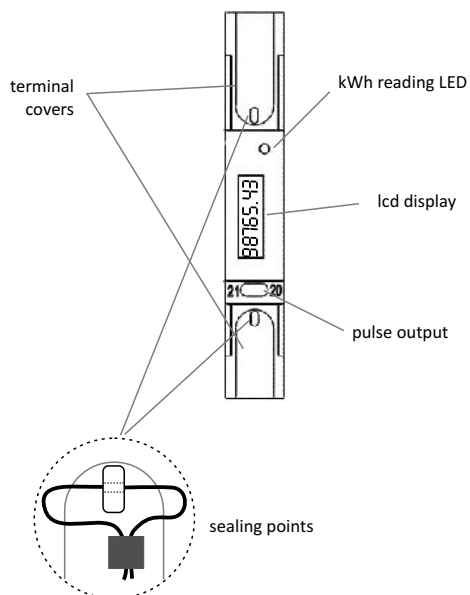
LE-01d is a static (electronic) calibrated electricity meter of single-phase alternating current in a direct system.

Operation

A special electronic system under the influence of flowing current and applied voltage generates pulses proportional to the drawn energy. Energy consumption is indicated by a flashing LED. The amount of pulses is converted into energy input, and its value is displayed by the segment LCD display. The fractional digits represent the hundredths (.01 kWh = 10Wh)

- 1 -

Meter front description



- 3 -

Pulse output

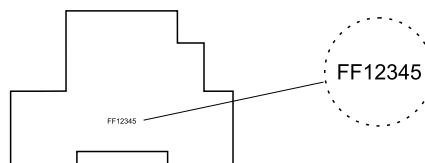
The meter is equipped with pulse output SO+ - SO-. This allows you to connect another pulse device (SO) that reads pulses generated by the meter. No additional connected equipment is required for proper operation of the meter.

Sealing

The meter has sealable input and output terminal covers to prevent any attempts to bypass the meter.

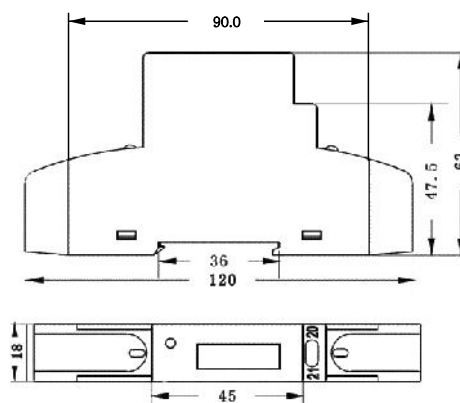
Meter number

The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed.



- 2 -

Dimensions



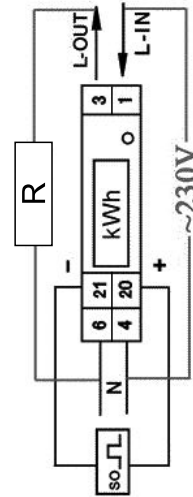
- 4 -

Specification

reference voltage	230VAC 50Hz
base current	0,25÷5A
maximum current	50A
minimum current	0,02A
accuracy class	B
compliance	MID / EN50470-1/3
own power consumption	<8VA; <0,4W
indication range	0÷99999,99kWh
meter constant	(1 Wh/pulse) 1000pulses/kWh
kWh read-out signalling	red LED
SO+ SO- pulse output	open collector
SO+ SO- connection voltage	<12÷27V DC
SO+ SO- connection current	<27mA
SO+ SO- constant	(1 Wh/pulse) 1000pulses/kWh
SO+ SO- pulse duration	90ms
SO+ SO- wire lenght	<20m
working temperature	-25÷55°C
protection grade	IP20
terminal	6mm ² screw terminals
housing	PC+ABS material
dimensions	1 module (18×120×63mm)
weight (Net)	0,71kg
mounting	on TH-35 rail

- 5 -

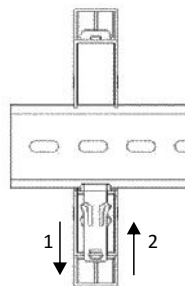
Connection scheme



- 6 -

Installation

1. Disconnect the power.
2. Mount the indicator on a rail in the distribution box.
3. Connect input phase to terminal 1. Connect wire N to terminal 4.
4. Connect a measured circuit or a single receiver to terminal 3 (output phase L) and to terminal 6 (N).
5. Optionally connect the RS-485 network wires to the 20(A+) - 21(B-) terminals.
6. Put the covers on the terminals and optionally seal them.



- 7 -

General safety conditions

- * Please read the manual carefully prior to installing the meter.
- * The meter should be installed and operated by qualified personnel familiar with the construction, operation and any hazards involved.
- * Do not install the meter if it is damaged or incomplete.
- * The user is responsible for proper grounding, selection, installation and functionality of any other devices connected to the meter, including security devices such as overcurrent protection breakers, differential switches and surge protectors.
- * Before connecting the power supply make sure that all cables are connected properly.
- * Always follow the operational conditions of the meter (voltage, humidity, temperature).
- * In order to avoid electric shock or damage to the meter, disconnect the power before each change in connection configuration.
- * Do not modify the device on your own, as this may cause damage or improper operation of the meter and consequently expose the users to risk. In these cases the manufacturer is not liable for ensuing events and reserves the right to refuse the warranty claims on the counter.



D140219/141007

- 8 -