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LE-01d

Electric energy meter,
single-phase



Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Compliance

MID Directive 2014/32/EU
Certificate TCM 221/12-4971

Purpose

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

Functioning

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 (0.01 kWh = 10 Wh).

Measured value

Active energy consumed

AE+

[kWh]

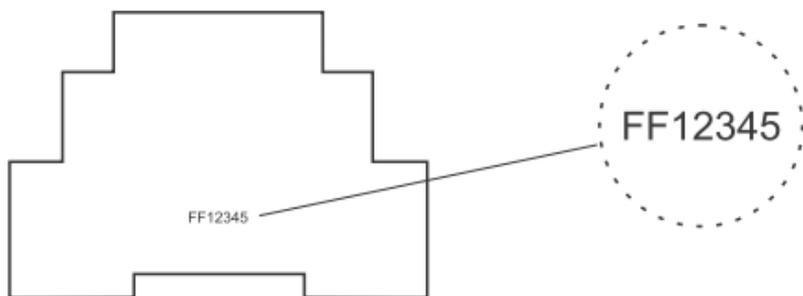
Pulse output

The meter is equipped with pulse output open collector (OC type). 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.

Meter number

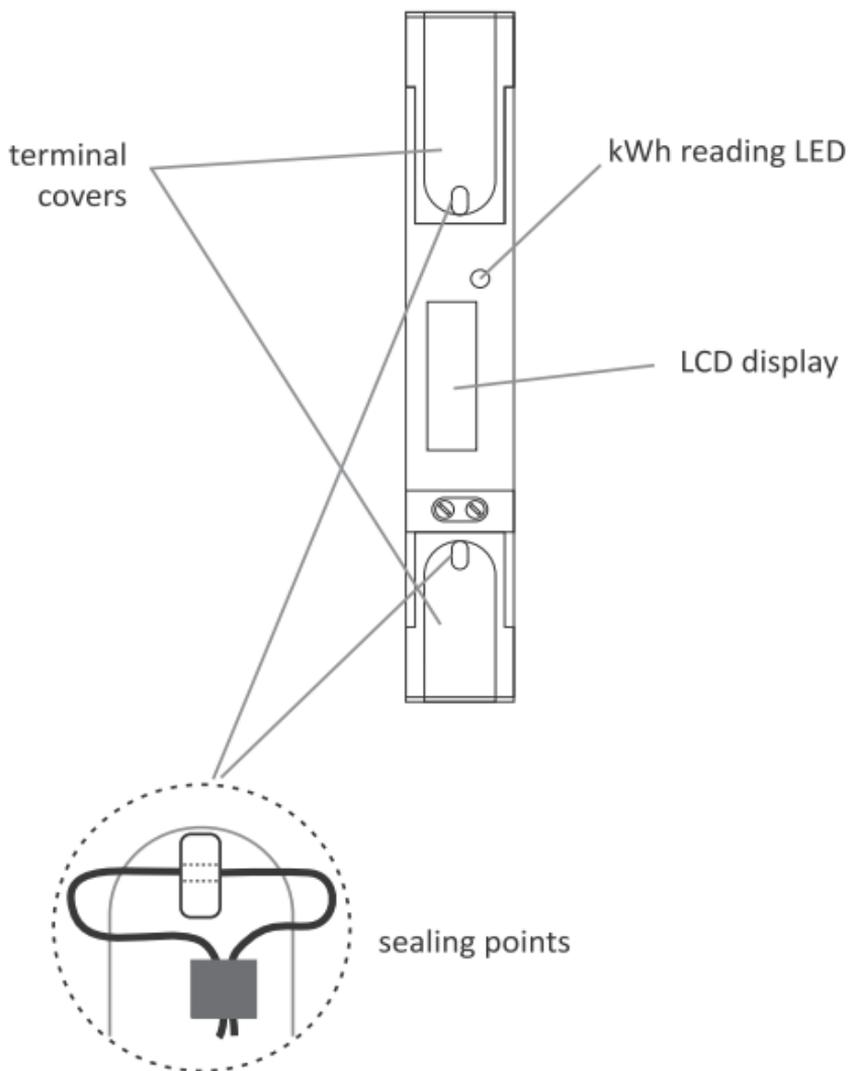
The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed).



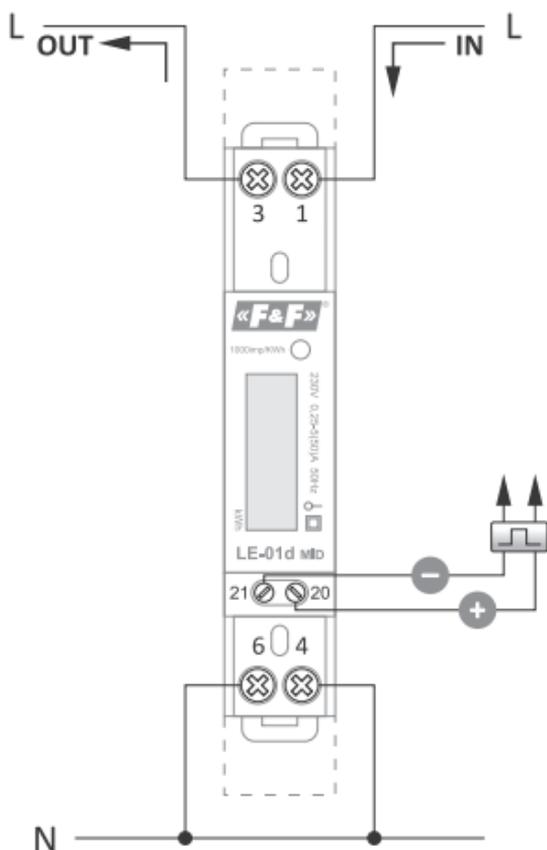
Sealing

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

Meter front description



Wiring diagram

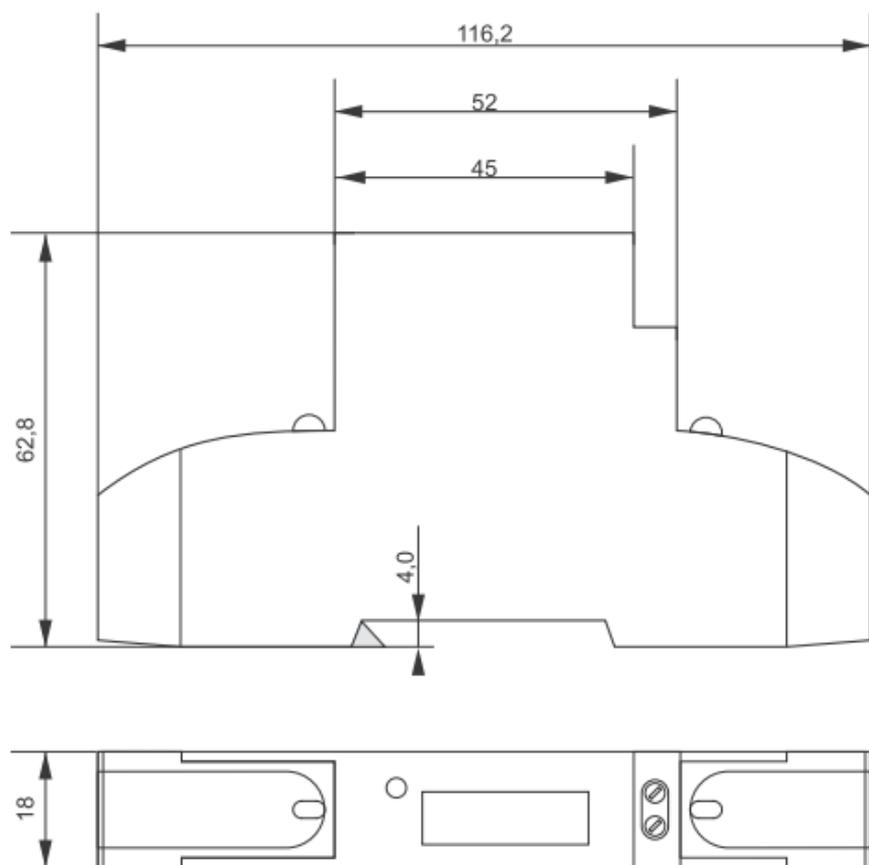


- 1 – L_{IN} power supply input
- 3 – L_{OUT} power supply output
- 4, 6 – neutral N-wire
- 20 – pulse output (+)
- 21 – pulse output (-)

Technical data

type	1-phase
installation	2-wire
reference voltage	230 V AC
minimum current	0.25 A
base current	0.25÷5 A
maximum current	50 A
detection threshold (minimum measured current)	0.02 A
voltage measuring range	160÷265 V
measurement accuracy (EN50470-1/3)	B class
rated frequency	50 Hz
insulation protection class	II
housing	PC+ABS material
own power consumption	8 VA; 0,4 W
indication range	0÷99999.99 kWh
constant	(1 Wh/pulse) 1000 pulses/kWh
read-out signalling	red LED
pulse output	
type	open collector
maximum voltage	27 V DC
maximum current	27 mA
pulse constant	1000 pulses/kWh
pulse time	90 ms
working temperature	-20÷55°C
terminal	6 mm ² screw terminals
dimensions	1 module (18 mm)
mounting	on TH-35 rail
ingress protection	IP20

Dimensions



Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

CE declaration

F&F Filipowski sp. j. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found www.fif.com.pl on the product subpage.

General work safety conditions

- » Please read the instructions carefully before installation.
- » The device should be installed and operated by qualified personnel who are familiar with its design, operation, and associated risks.
- » Do not install a meter that is damaged or incomplete.
- » The user is responsible for proper grounding of the system, proper selection, installation, and efficiency of other devices connected to the meter, including safety devices such as over-current, residual current and overvoltage circuit breakers.
- » Before connecting the power supply, make sure that all cables are connected correctly.
- » It is essential to observe the operating conditions of the meter (supply voltage, humidity, temperature).
- » To avoid electric shock or damage to the meter, turn off the power supply whenever the connection is changed.
- » Do not make any changes to the unit yourself. Doing so can result in damage to or improper operation of the device, which in turn can pose a threat to people operating it. In such cases, the manufacturer is not responsible for the resulting events and may refuse the provided warranty in the event of a complaint.
- » Do not tighten the terminals without the wire inserted. This may damage the lift mechanism of the terminal or the plastic cover of this terminal.