

**DEC-1**  
**004804050**

El. meter  
Merilni instrument  
Mjerni instrument  
Mjernik  
Měřicí přístroj  
Meraci prištroj  
Fogyasztásmérő  
El. Energijos skaitiklis  
Измерительный прибор  
Elekro enerģijas skaitītājs  
Elektriarvesti  
Messgerät



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**ETI**

#### Compliance

MID Directive 2014/32/EU

#### Purpose

DEC-1 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 (.01 kWh = 10 Wh).

#### 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.

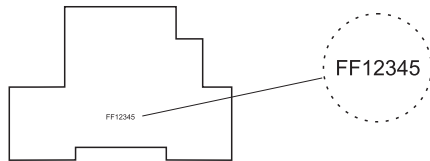
No additional connected equipment is required for proper operation of the meter.

#### Sealing

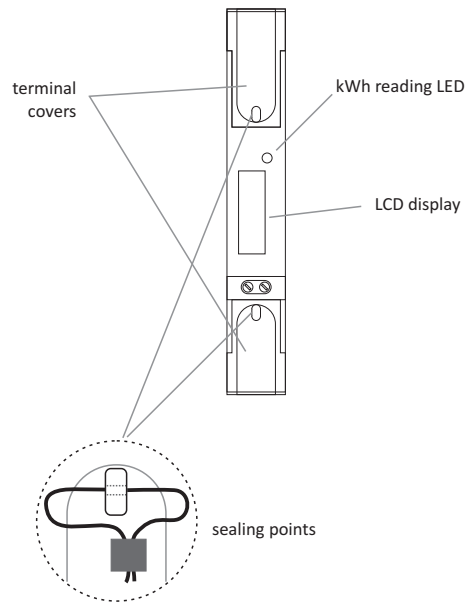
The meter has sealable input and output terminal covers to prevent any attempts to bypass the meter.

#### Meter number

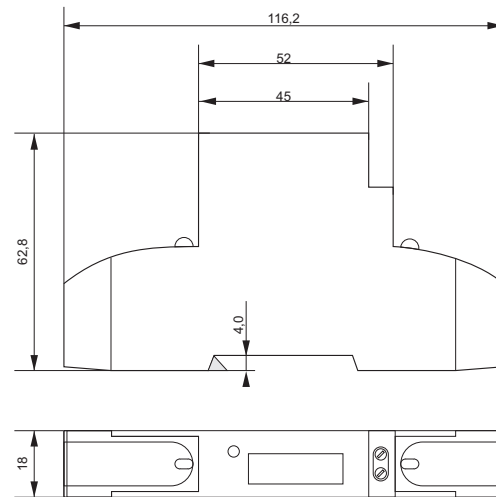
The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed.



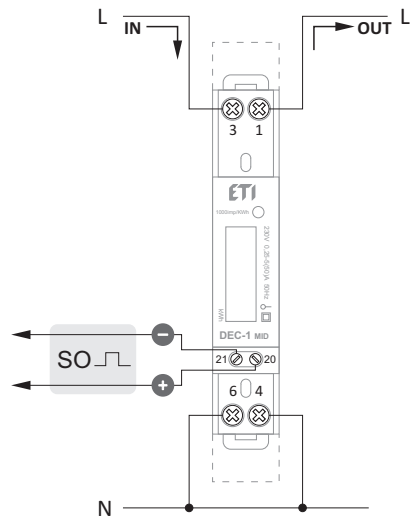
#### Meter front description



#### Dimensions



## Connection scheme



## Assembly

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.

## Technical data

reference voltage	230 V AC, 50 Hz
base current	0.25+5 A
maximum current	50 A
minimum current	0.02 A
accuracy class	B
compliance	2014/32/EU Directive
MID declaration	TCM 221/12-4791
own power consumption	<8 VA; <0.4 W
indication range	0÷99999.99 kWh
meter constant	(1 Wh/pulse) 1000 pulses/kWh
kWh read-out signalling	red LED
SO+ SO- pulse output	open collector
SO+ SO- connection voltage	<12÷27 V DC
SO+ SO- connection current	<27 mA
SO+ SO- constant	(1 Wh/pulse) 1000 pulses/kWh
SO+ SO- pulse duration	90 ms
SO+ SO- wire length	<20 m
working temperature	-25÷55°C
terminal	6 mm <sup>2</sup> screw terminals
housing	PC+ABS material
dimnesions	1 module (18 mm)
mounting	on the TH-35 rail
protection level	IP20

## 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