



ETI, d.o.o., Obrezija 5, SI-1411 Izlake
www.etigroup.eu/products-services

DEC-2
004804051

Electric energy meter,
3-phase



Compliance

MID Directive	2014/32/EU
Certificate number	0120/SGS/0169

Purpose

The DEC-2 is a static (electronic) calibrated electricity meter of three-phase alternating current in a direct system.

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 (A, B, C). The sum of the pulses of the three phases is indicated by a flashing LED 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 (0.01 kWh = 10 Wh).

Measured value

Active energy consumed

AE+

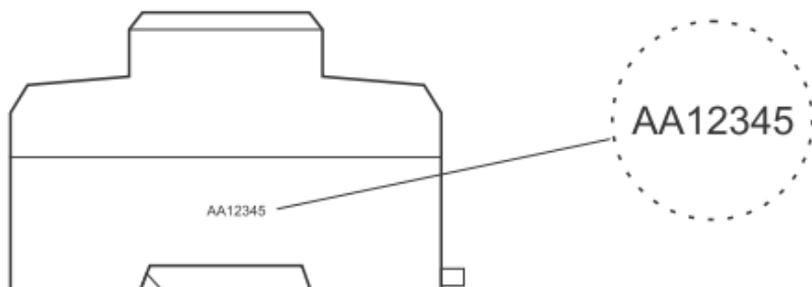
[kWh]

Pulse output

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

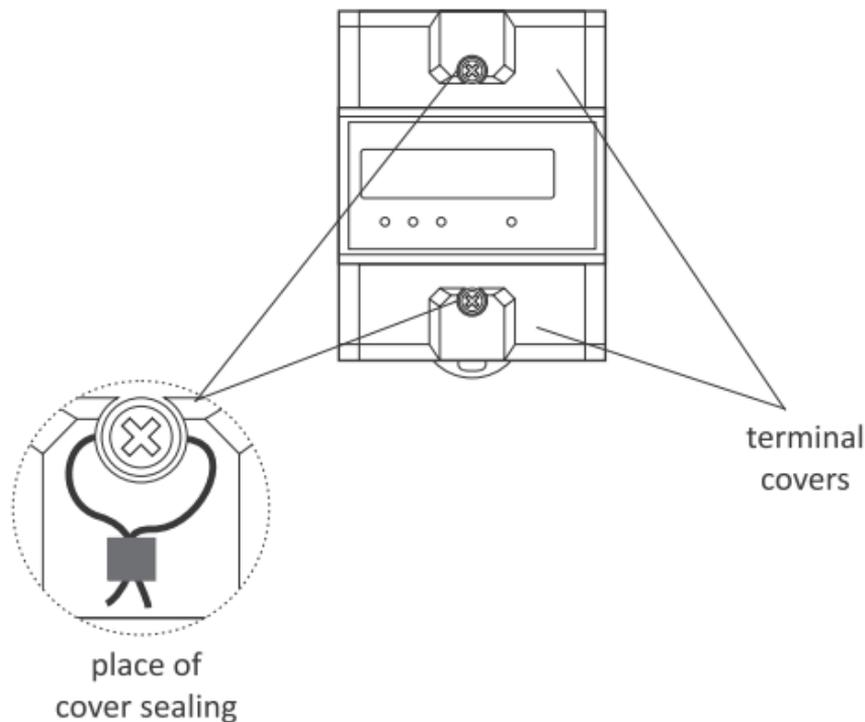
Meter number

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.



Mounting

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. Connect power to terminals 1 (L1 IN), 3 (L2 IN), 5 (L3 IN).
5. Connect the measured circuit or a single receiver to the terminals in accordance with the markings to the terminals 2 (L1 OUT), 4 (L2 OUT), 6 (L3 OUT).
6. N-wire connect to terminal 7.
7. Additional pulse receiver connected to terminals 20(+) – 21(-).
The terminals are located under the top shell meter terminals.



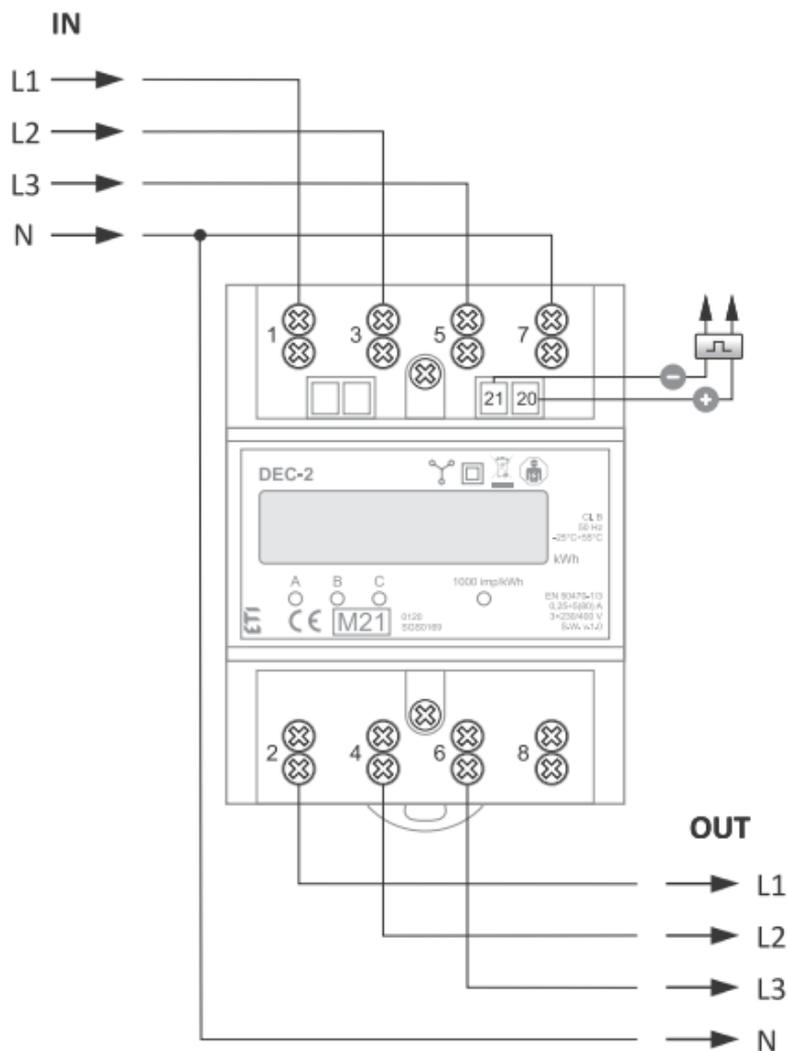
Additional pulse receiver is not required.

8. Put the meter terminals covers.

Description of terminals

1, 3, 5	– L1, L2, L3 (power supply)
2, 4, 6	– L1, L2, L3 (receive)
7	– N-wire neutral
20	– pulse output (+)
21	– pulse output (-)

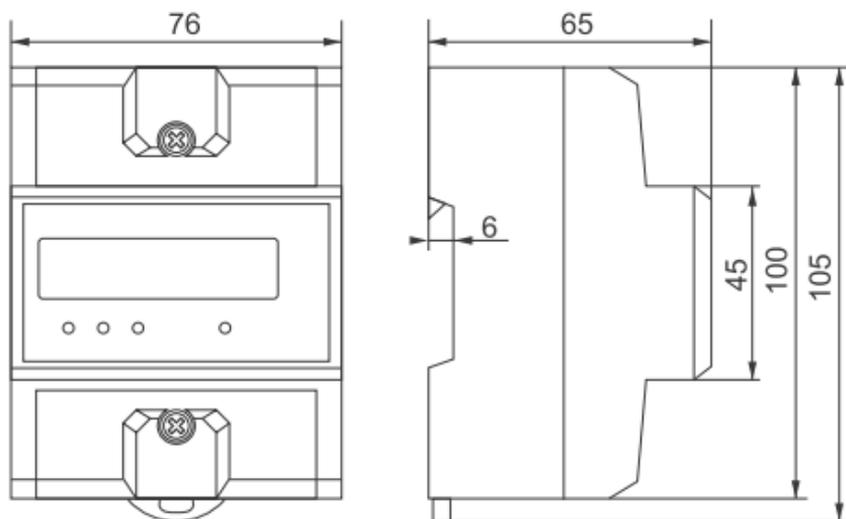
Wiring diagram



Technical data

installation	4-wire
rated voltage	3×230/400 V
minimum measured current	0.04 A
base current	0.25÷5 A
maximum current	80 A
voltage measuring range	160÷265 V
measurement accuracy (EN50470-1/3)	class B
rated frequency	50 Hz
insulation protection class	II
housing	PC+ABS material
own power consumption	<10 VA; <2 W
indication range	0÷999999.99 kWh
constant	1000 pulses/kWh
current consumption signalling A, B, C phases	3× red LED
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	35 ms
working temperature	-25÷55°C
terminal	16 mm ² screw terminals
dimensions	4.5 module (75 mm)
mounting	on TH-35 rail
ingress protection	IP20

Dimensions



Warranty

ETI 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

ETI 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 and MID Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found www.etipolam.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.