Energy-400 D PWRi

VE120200



Static energy meter for displaying active energy consumption in three-phase 400 Vac systems. 400 Vac power supply, DIN-rail mounted (4-module), current input up to 1000 A via x/5 CTs, with backlit LCD display, pulse output, and isolated current inputs.

General features

- Non-resettable total energy meter
- Resettable partial energy meter
- Green LED: power presence
- Red LED: identifies the energy count (each blink equals 1/4 kWh)
- Yellow LED: identifies connection error
- Programming keys
- Optoisolated pulse output
- Static meter for displaying energy consumption active, with amperometric connection via CT x/5 A
- Possibility of connection in three-phase and three-phase + N systems
- Pulse output for PC display of consumed energy via dedicated software and the corresponding concentrator module
- Galvanically isolated amperometric input (CT secondary may be grounded)
- 7 + 5 digit LCD display
- CT setting from 5/5 A to 1000/5 A
- Note: when connecting the device, the CT transformation ratio must exactly match the ratio described above, selectable on the device

Technical specifications

Power supply	
Power supply	3x230 (400) Vac (-15% ÷ +10%)
Frequency	50 / 60 Hz
Measure	
Energy display resolution	1 kWh
Active energy measurement accuracy	Class 2 (EN IEC 62053-21)
Voltage circuit absorption	<2,5 VA
Current circuit absorption	< 2,5 VA
AC current range	5 to 1,000 A
Starting current	< 15 mA
Nominal - rated current	5 A

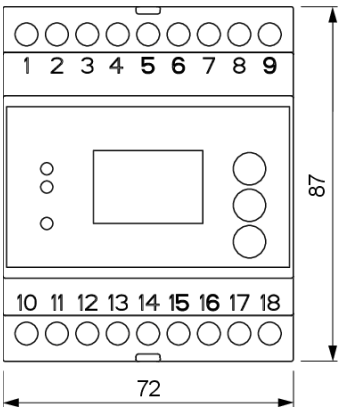
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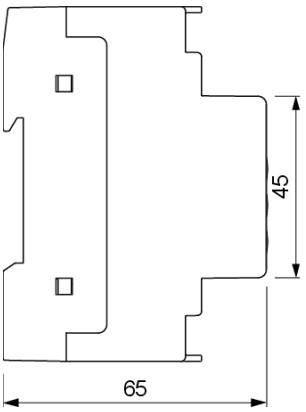
Measure	
Maximum current	6 A
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Backlit LCD
Digits number	7 + 5
Outputs	
Optoisolated pulse output	✓
Pulse weight	1 kWh
Pulse duration	100 ms
Pulse output current	< 20 mA
Output pulse voltage	9 ÷ 24 Vdc
Mechanical features	
Protection degree	IP20 IP21 (on the front)
Overall dimensions	
Height (A)	87 mm
Width (B)	72 mm
Depth (C)	65 mm

Dimensions

Front View

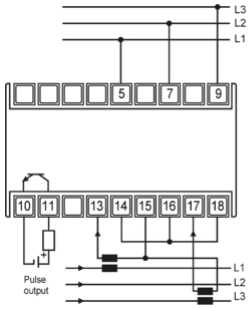


Side View

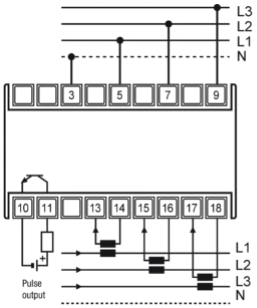


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Wiring diagram

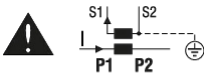


Connection with 2 CTs WITHOUT neutral (3 wires)



Connection with 3 CTs WITH or WITHOUT neutral (3 or 4 wires)

Graphic details



Warning: the secondary circuits of current transformers can be connected to earth.

Product variants

Energy-400 D PWR

VE119400

4-DIN module energy meter, CT insertion, backlit LCD display, 400 Vac pulse output

Accessories compatible with the product

CLIP-485

VN905600

Energy series concentrator module for meters

LAN-485

VE304200

LAN/RS-485 interface + software (on request)

Energy-View

VN970000

System consisting of a USB/RS-485 interface and software for energy meters

Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN 61010-1 • EN IEC 62052-11 • EN IEC 62053-21 • EN IEC 63000

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