Energy-400 D PWR

VE119400



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 and pulse output.

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
- 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
- Optoisolated pulse output for displaying consumed energy on a PC via dedicated software and the corresponding concentrator module
- 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
Maximum current	6 A

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Revision date: 2026-02-02

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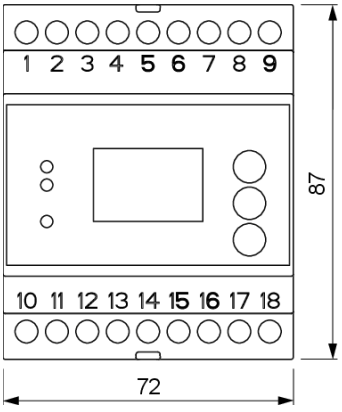
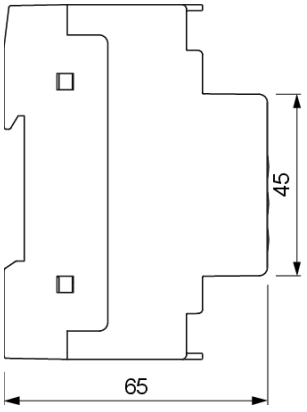
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Backlit LCD
Digits number	7 + 5
Outputs	
Optoisolated pulse output	✓
Pulse weight	1 kWh
Pulse duration	100 ms
Pulse output current	< 20 mA
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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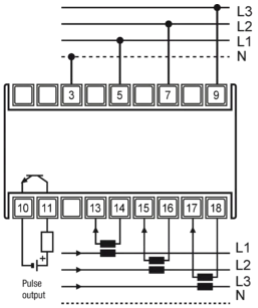
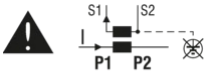
Wiring diagram



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

Graphic details



Warning: the secondary circuits of current transformers MUST NOT be connected to earth.

Product variants

Energy-400 D PWRi

VE120200

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

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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