Energy-230 D40

VE429710



DIN-rail energy meter for single-phase systems, designed to measure active energy withdrawn and fed into the grid. Direct connection up to 40 A. Displays total energy, partial energy and instantaneous power (input and withdrawn). Includes pulse output for remote counting.

General features

- Large backlit display for viewing energy and power consumed and supplied
- Keypad for parameter setting and menu page navigation
- Energy-counting LED (1 flash = 10 Wh)
- Terminal blocks for power and load connection
- Terminal blocks for pulse output (1 pulse = 5 Wh)
- Direct insertion up to 40 A
- Accuracy: class B
- Sealable keyboard cover
- Sealable terminal covers (lid included in the package)
- 4 independent meters for measurements of:
  - total energy, partial energy, withdrawn energy
  - total energy, partial energy, injected energy
- Page for displaying instantaneous power (absorbed or supplied)
- Page for displaying power factor (inductive and capacitive)
- Circular menu structure consisting of 5 pages.

Technical specifications

Power supply	
Power supply	230 Vac (-15% ÷ +10%)
Frequency	50 Hz
Absorption	5 VA
Measure	
Instantaneous power display resolution	0.01 for power ≥ 100 W kW 0.001 for power < 100 W kW
Power factor resolution	0.001 for powers > 2 W
Total energy display resolution	1 kWh
Partial energy display resolution	0.1 kWh
Active energy measurement accuracy	Class B (EN 50470-1)

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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Measure	
Current circuit absorption	< 4 VA
AC current range	40 A
Type of insertion - current	Direct
Starting current	20 mA
Minimum current	0.25 A
Nominal - rated current	5 A
Maximum current	40 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
Outputs	
Optoisolated pulse output	✓
Pulse weight	5 Wh
Pulse duration	100 ms
Pulse output current	< 20 mA
Output pulse voltage	9 ÷ 24 Vdc
Mechanical features	
Protection degree	IP20 IP51 (on the front)
Overall dimensions	
Height (A)	87.5 mm
Width (B)	36 mm
Depth (C)	65 mm

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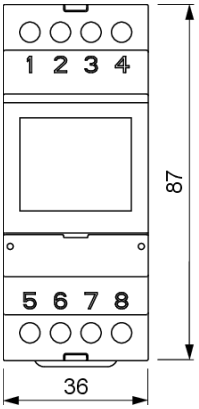
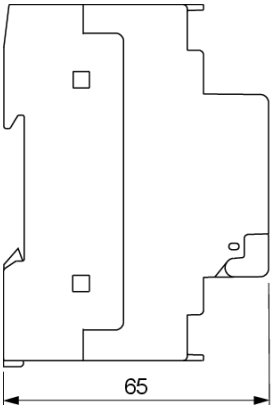
Dimensions

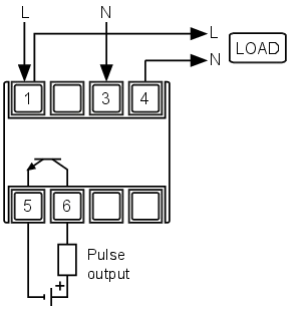
Front View



Side View



Wiring diagram



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 50470-1 • EN 50470-3 • EN IEC 63000

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