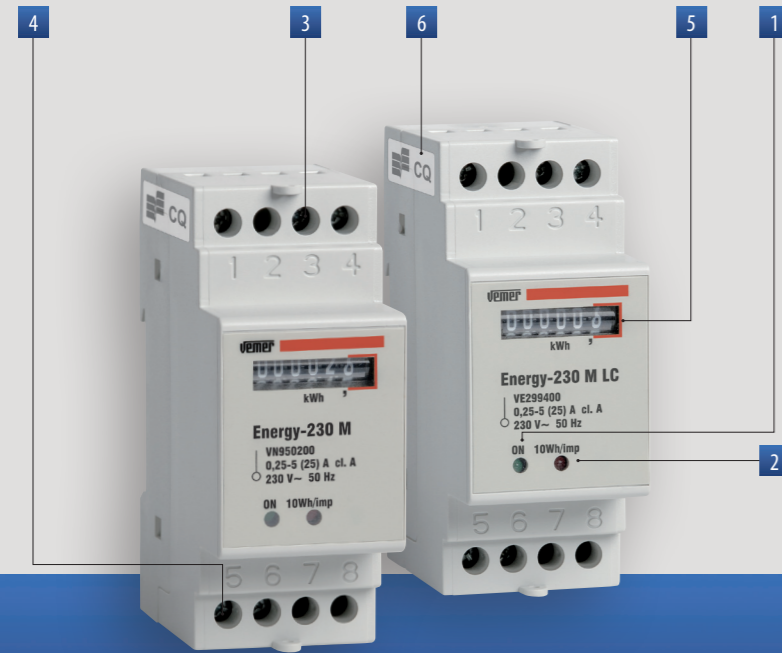


Energy meters

ENERGY-230 M ENERGY-230 M LC

Static energy meters to view the consumption of active energy in 230 V single-phase systems. Complies with the MID directive.

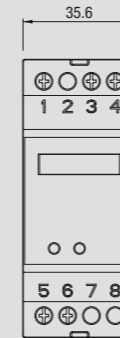


- 1 Green Led on: power on
- 2 "Flashing" Red LED: active energy consumption
Every flash = 10 Wh
- 3 Terminal blocks for the insertion of measurement leads
- 4 Terminal blocks for pulse output (Energy-230 M only)
- 5 Energy meter counter
- 6 MID metrological instrument seal

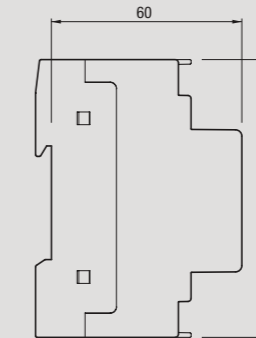


DIMENSIONS (mm)

Front view

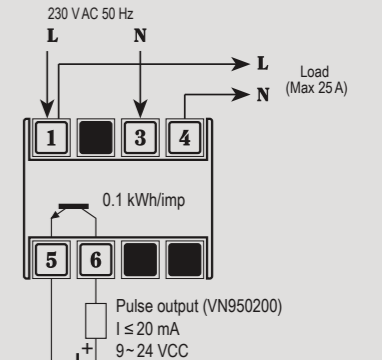


Side view



CONNECTION DIAGRAM

Diagram



MEASUREMENT AND CONTROL

DIRECT CONNECTION MID SINGLE-PHASE METERS

- Power supply: 230 V AC (-15% ÷ +10%)
- Mounting: DIN rail
- Class index: A
- Max measurable current: 25 A
- Static meter with direct connection max 25 A
- Non zeroable electromechanic 5 digits + decimal numerator
- Active energy consumption indication 1 LAMP = 10 Wh
- Format 2 DIN modules
- Pulse output for PC visualising (Energy-230 M only), using special software and relative receiver module for consumed energy



TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-15 ÷ +10%)
Frequency	Hz	50
Electromechanic numerator		5 digits + decimal
Reading resolution	kWh	0.1
Class index		A
Absorption	Voltmetric circuit	VA 4
	Amperometric circuit	VA 2
Reference current	A	5
Maximum current	A	25
Starting current	mA	20

Optoisolated pulse output*	Pulse weight	kWh	0.1
	Pulse duration	ms	100 (±15%)
	Pulse voltage	V DC	9 ÷ 24 (±15%)
	Maximum output energy	mA	<20
Operating temperature		°C	-10 ÷ +55
Storage temperature		°C	-25 ÷ +70
Container			2 DIN modules
Humidity			10 ÷ 90% non condensing
Degree of protection			IP20 / 51 frontal

* Energy-230 M model only

Code	Model	Description	Dimensions
VN950200	Energy-230 M	MID single-phase energy meter with pulse output	2 DIN modules
VE299400	Energy-230 M LC	MID single-phase energy meter	2 DIN modules

REFERENCE STANDARDS

Compliance with Community Directive: 2004/22/EC (MID) is declared in reference to the following harmonised Standards: EN 50470-1 and EN 50470-3