

# Energy meters

Static meters with LCD display to view the consumption of active energy in 230 V single-phase systems.

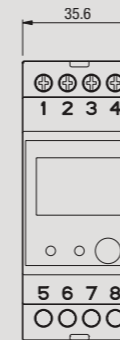


## ENERGY-230 D22 ENERGY-230 D22 Pulse

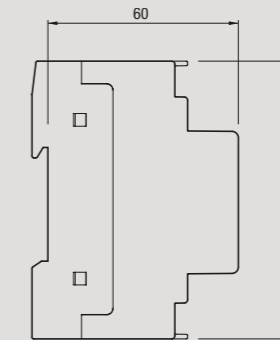
- 1 Non zeroable total meter
- 2 Programming button
- 3 Consumption count LED
- 4 Power supply signalling LED
- 5 Zeroable partial meter

### DIMENSIONS (mm)

#### Front view

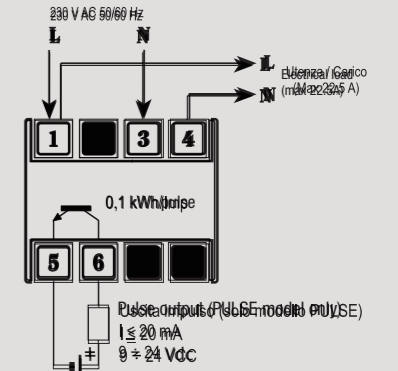


#### Side view



### CONNECTION DIAGRAM

#### Diagram



## MEASUREMENT AND CONTROL

### TECHNICAL INFORMATION

#### DIRECT CONNECTION SINGLE-PHASE METER

- Power supply 230 V AC (-15% ÷ +10%) 50/60 Hz
- View via 7 digits (total energy) + 5 digits (partial energy) LCD display
- Active energy consumption indication 1 FLASH = 10 Wh
- Precision class 2
- Max input current: 22.5 A
- Static meter with direct connection max 22.5 A
- Container 2 DIN modules
- Pulse output for PC view of the consumed energy (Energy-230 D22 Pulse only), via specific software and relevant concentrator module
- Connection incorrect signal
- Instrument to measure:
  - total energy
  - partial energy
  - instantaneous power



#### GENERAL CHARACTERISTICS

Power supply	V AC	230 (-15 ÷ +10%)
Frequency	Hz	50 / 60
Power consumption	VA	4
Input current	A	$I_n = 10$ ; $I_{max} = 22.5$
Starting current	mA	<25
Container		2 DIN modules
Current circuit power consumption	VA	<2.5
Total energy resolution	kWh	0.1
Degree of protection		IP20 / 51 on the front
Partial energy resolution		0.01 kWh on a full scale of 999.99 kWh 0.1 kWh on a full scale of 9999.9 kWh
Instantaneous power resolution	kW	0.01

Operating temperature	°C	-10 ÷ +45
Storage temperature	°C	-20 ÷ +60
Signalling LED		Green = powered Red = flashing with frequency 10 Wh
Precision		Class 2 (EN 62053-21)
Optoisolated pulse output	Pulse weight kWh	0.1
	Duration ms	100
	Voltage V DC	9 ÷ 24
	Current mA	<20
Humidity		10 ÷ 90% non condensing

Code	Model	Description	Dimensions
VE044400	Energy-230 D22	LCD single-phase energy meter	2 DIN modules
VE055000	Energy-230 D22 Pulse	LCD single-phase energy meter with pulse output	2 DIN modules

#### REFERENCE STANDARDS

Compliance with Community Directives: 2014/35/EU (LVD) and 2014/30/EU (EMCD) is declared with reference to the following Standards: EN 61010-1 • EN 61000-6-2 / EN 61000-6-4