Energy-400 D90

VN984100



Static energy meter for displaying active energy consumption in three-phase 400 Vac systems. 400 Vac power supply, DIN-rail mounted (7-module), 100 A direct insertion, with backlit LCD display and pulse output.

General features

- Non-resettable total energy meter
- Resettable partial energy meter
- Green LED: power presence
- Red LED: indication of active energy consumption
- Yellow LED: indicates incorrect insertion
- Programming key
- Base current: 10 A
- Maximum measurable current: 100 A
- Maximum continuous overload in class 1 operation: 100 A
- Direct insertion of current conductors (max cross-section 25 mm²) in vertical section of housing body.
- LCD display with 7 digits (total energy not resettable) + 5 digits (resettable partial energy)
- Active energy consumption indication: 1 LAMP = 10 Wh
- Pulse output for PC display of consumed energy via dedicated software and the corresponding concentrator module
- Galvanically isolated amperometric input
- Optoisolated pulse output

Technical specifications

Power supply	
Power supply	3x230 (400) Vac (-15% ÷ +10%)
Frequency	50 / 60 Hz
Measure	
Energy display resolution	0.1 kWh
Active energy measurement accuracy	Class 1 (EN IEC 62053-21)
Voltage circuit absorption	<2,5 VA
Current circuit absorption	< 2,5 VA
AC current range	100 A
Type of insertion - current	Direct through through-holes
Starting current	< 40 mA
Basic current	10 A
Maximum current	100 A

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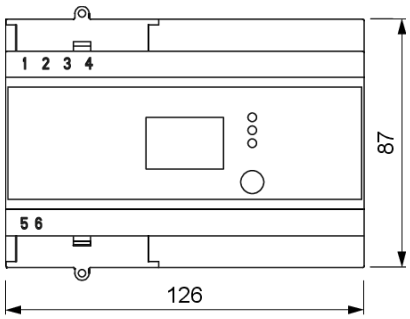
Revision date: 2026-02-02

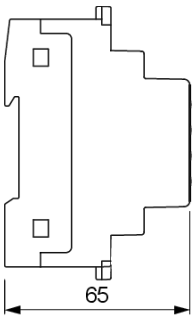
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Backlit LCD
Digits number	7 (total energy) 5 (partial energy)
Outputs	
Optoisolated pulse output	✓
Pulse weight	0.1 kWh
Pulse duration	100 ms
Pulse output current	< 20 mA
Output pulse voltage	9 ÷ 24 Vdc
Terminations	
Termination type	Terminal blocks
Maximum cable cross-section	(voltage input) 2.5 mm² (current input) 25 mm² (pulse output) 2.5 mm²
Mechanical features	
Protection degree	IP20 IP51 (on the front)
Overall dimensions	
Height (A)	87 mm
Width (B)	126 mm
Depth (C)	65 mm

Dimensions

Front View



Side View



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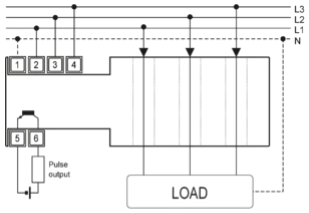
Wiring diagram



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

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