ADR-R

VN561700



Panel-mounted network analyser (72×72 mm), 230 Vac supply, current input via CT, isolated current inputs, with RS-485 MODBUS. Designed for monitoring main TRMS electrical parameters in single-phase and three-phase systems with or without neutral, with balanced and unbalanced loads.

General features

- Possibility to display system parameters and maximum recorded value of current parameter
- Storage of peak values and related times linked to current hour
- Backlit LCD display with 3 numeric fields
- CT and VT ratios selectable directly via programming
- Resetting the active energy meter
- Reactive energy meter reset
- Backlight management: ON/OFF or timed
- RS-485 output for data communication with the possibility to display and store measurements (ADR-view)
- Device for measuring:
  - Voltages (TRMS) (line and phase)
  - Currents (TRMS)
  - Active, reactive, apparent power
  - Active and reactive energy
  - Frequency
  - Power factor (cos φ)
  - Phase angle

Technical specifications

Power supply	
Power supply	230 Vac (-15% ÷ +10%)
Frequency	50 / 60 Hz
Absorption	4 VA
Measure	
Current measurement accuracy	0.5% of full scale + 1 digit
Voltage measurement accuracy	0.5% of full scale + 1 digit
Frequency measurement accuracy	± 1 Hz
Active energy measurement accuracy	Class 2

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Revision date: 2026-02-02

Measure	
Reactive energy measurement accuracy	Class 3
Active power measurement accuracy	1% full scale ± 1 digit
AC current range	(via TA) 9999 A
AC voltage range	(direct entry) 550 V (via TV) 9999 V
Type of insertion - current	Via external CT x/5
Type of insertion - voltage	Direct Via external TV x/230
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	20% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Backlit LCD
Outputs	
Serial interface output	✓
Terminations	
Termination type	Plug-in terminal block
Maximum cable cross-section	2.5 mm²
Mechanical features	
Protection degree	IP54
Overall dimensions	
Height (A)	72 mm
Width (B)	72 mm
Depth (C)	114 mm

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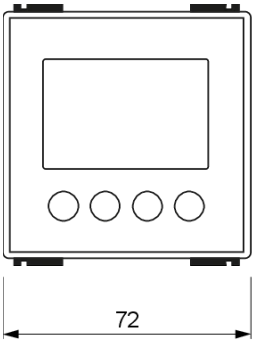
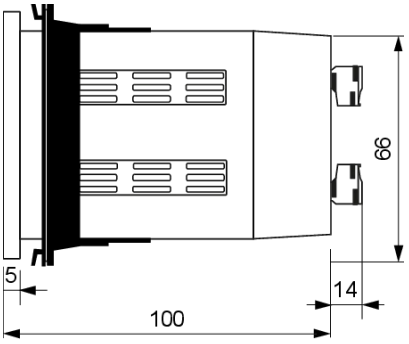
Dimensions

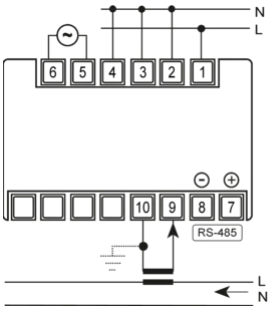
Front View



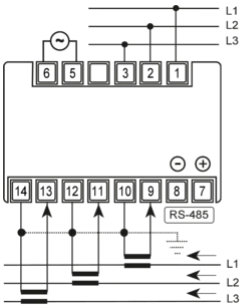
Side View



Wiring diagram



Possibility to connect the CT secondaries to earth



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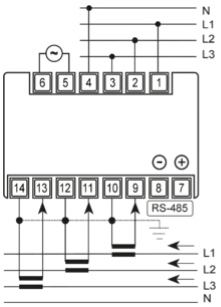
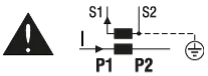


Possibility to connect the CT secondaries to earth

Graphic details



Warning: the secondary circuits of current transformers can be connected to earth.

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Product variants

ADR-R E

VE280400

Panel-mounted network analyser, current input via TA, with RS-485, 230 Vac supply.

Accessories compatible with the product

ADR-View

VN564100

System consisting of a USB/RS-485 interface and software for network analyzers

LAN-485

VE304200

LAN/RS-485 interface + software (on request)

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 61000-6-2 • EN IEC 61000-6-3 • EN IEC 62052-11 • EN IEC 62053-21 • EN IEC 62053-23 • EN IEC 63000

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