ADR-R E

VE280400



Panel-mounted network analyser (72×72 mm), 230 Vac supply, current input via TA, 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

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.

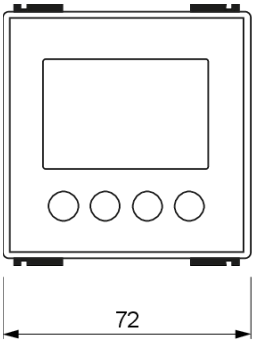
Revision date: 2026-02-02

Measure	
Reactive energy measurement accuracy	Class 3
Active power measurement accuracy	1% full scale ± 1 digit
AC current range	1 ÷ 9999 A
AC voltage range	(direct entry) 550 V 1 ÷ 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	10% ÷ 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

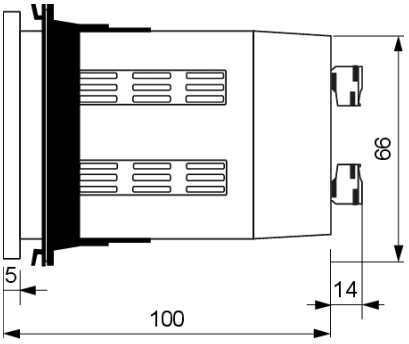
Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical 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.

Dimensions

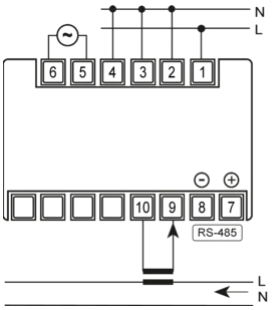
Front View

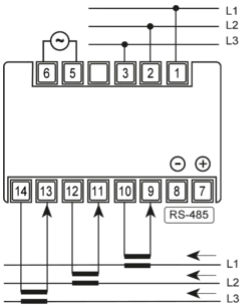


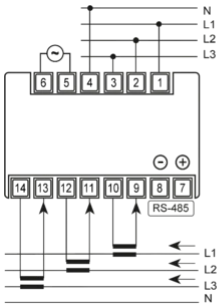
Side View



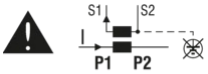
Wiring diagram







Graphic details



Warning: the secondary circuits of current transformers MUST NOT be connected to earth.

Product variants

ADR-R

VN561700

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

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.

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

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.