EVM-R 230V AC

VM293800



Multifunctional electronic device configurable as voltmeter or ammeter for true root mean square value (TRMS) measurement of AC voltage and current in single-phase systems. With panel installation (72x72 mm), 230 Vac power supply, 600 V / TA x/5 A AC rating.

General features

- Readout: 14 mm red 3-digit display
- Multifunction device that can operate as a voltmeter or ammeter depending on the type of connection
- Direct connection voltmeter up to 600 Vac
- Ammeter with current transformer (CT) connection x/5 A, from 5/5 to 4000/5 A:
  - 5/5 to 1000/5 in increments of 5
  - 1000/5 to 4000/5 in increments of 500
- Minimum measurable value: 3% of full scale
- Out-of-scale value indication (“HHH”)

Technical specifications

Power supply	
Power supply	230 Vac (-15% ÷ +10%)
Frequency	50 / 60 Hz
Absorption	4 VA
Measure	
Voltage display resolution	1 V
Current display resolution	10 mA
Current measurement accuracy	± 0.5 % of full scale value ± 1 digit
Voltage measurement accuracy	± 0.5 % of full scale value ± 1 digit
AC current range	5 to 4,000 A
AC voltage range	600 V
Type of insertion - current	Via external CT x/5
Type of insertion - voltage	Direct
Minimum measurable current	20 mA
Minimum measurable voltage signal	10 V
Minimum measurable current signal	20 mA

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

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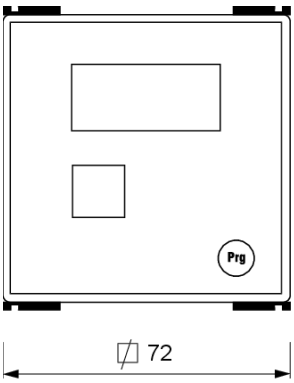
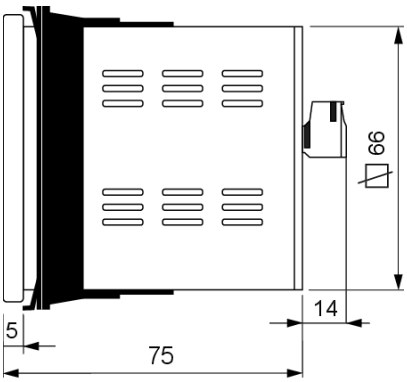
Measure	
Minimum measurable voltage	10 V
Minimum measurable value	3% of full scale
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Red LEDs
Digits number	3
Digits size	14 mm
Viewing	Max 999
Terminations	
Termination type	Plug-in terminal block
Maximum cable cross-section	2.5 mm²
Mechanical features	
Protection degree	IP20 IP51 (on the front)
Overall dimensions	
Height (A)	72 mm
Width (B)	72 mm
Depth (C)	89 mm

Dimensions

Front View



Side View



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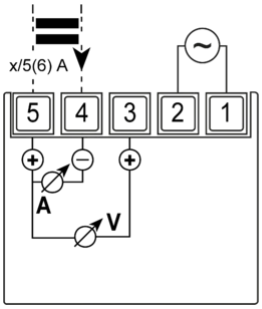
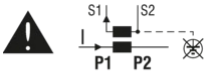
Wiring diagram



Graphic details



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

Product variants

EVM-R 24V AC

VM293802

Panel-mounted voltmeter-ammeter with 600 V / CT x/5 A AC range, 24 Vac power supply

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 63000

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