EVM-R 24V AC

VM293802



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), 24 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	24 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

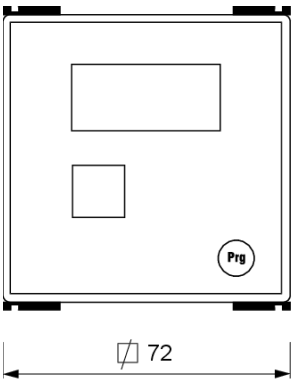
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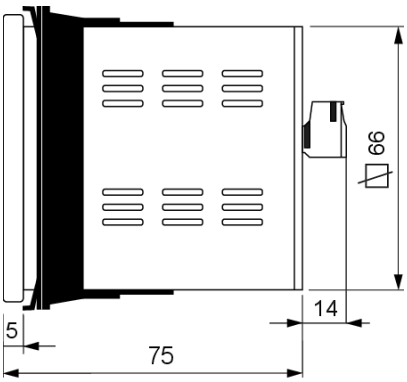
Measure	
Minimum measurable voltage	10 V
Minimum measurable value	3% of full scale
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Red LEDs
Digits number	3
Digits size	14 mm
Viewing	Max 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

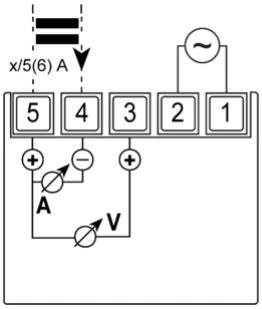


Side View

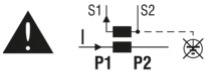


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Wiring diagram



Graphic details



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

Product variants

EVM-R 230V AC

VM293800

Panel-mounted voltmeter-ammeter with 600 V / CT x/5 A AC range, 230 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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