



VNE2

Monofunction panel meter for
electrical measurements

VNE2 is a 20,000-point monofunction digital panel meter 72 x 24 mm for electrical measurements in voltage, current and process signals.

Description

VNE2 is a 20,000 point monofunction digital panel meter 72 x 24 mm for electrical measurements in voltage, current and process signals. It is particularly adapted to measurements in industrial areas: robust housing, connection through a removable screwing connector, high immunity to external noises, several types of power supply. AC current measurement can be performed using an external transformer insuring a good insulation to the instrument in regards to line potentials.

- Panel meter size: 72 mm x 24 mm
- IP40 protected
- Measurement and display of:
 - DC and AC voltage up to 650 V
 - DC current up to 1,000 A with an external shunt
 - AC current up to 200 A
 - Process
- 9 different power supplies available

Specifications

Electrical measurement indicator

Type	Range	Resolution	Accuracy (1 year) (23°C ±1°C)	Input impedance	Comment
DC voltage	200 mV 2 V 20 V 200 V 650 V	100 µV 1 mV 10 mV 100 mV 1 V	0.1% + 100 µV 0.1% + 1 mV 0.1% + 10 mV 0.1% + 0.1 V 0.1% + 1 V	> 100 MΩ 1.1 MΩ 1 MΩ 1 MΩ 10 MΩ	Optional decimal point command
DC current	On request 2 A	100 mV / 1000 pts 1 mA	0.2% + 1 mA	Shunt 100 mV 0.1 Ω	External Shunt 10 - 100 - 1000 A or internal 2 - 20 - 200 mA
AC voltage	650 V	1 V	2 V	900 kΩ	Band-width 40 Hz to 400 Hz
AC current	2 A 20 A 200 A On request	1 mA 10 mA 100 mA 100 mV / 1000 pts	1% + 2 mA 1% + 20 mA 1% + 0.2 A 0.3% + 2	900 kΩ	Delivered with transformer (2 - 20 ou 200 A) >For secondary of CT 1 or 5A non-included
Process signals with scaling	0 - 5 V 0 - 10 V 4 - 20 mA 0 - 20 mA	Display ±2000 points For scale begin and end	0.1% of scale + 1	1 MΩ 1 MΩ 50 Ω 50 Ω	2 models, input and scale defined with order, can be modified by user (D51 model is set in factory: 4-20 mA/0-100%). an analog output is available as option.

Temperature coefficient: \leq accuracy/10°C
 Common rejection mode: \geq 110 dB at 50 Hz
 Serial rejection mode: \geq 60 dB at 50 Hz

Further features

Linear analogue output	1 mV / digit Acceptable load: \geq 2kW Non insulated analogue output
External decimal dot commutation	Command for V- models
Current transformer	Suitable transformer is supplied with I 33, I 34 and I 35 models. Primary 2 A, 20 A or 200 A. Secondary 1 A. 200 mV on 0.2 Ω shunt. Accuracy class: 0.5 for 1 VA power Frequency 50 / 60 Hz Primary connection by plugs for 2 A and 20 A ranges and metal cable gland ($\varnothing < 12$ mm) for 200 A range.
Zeroing and polarity	Automatic
Sampling rate	2.5 samples / s

General specifications

Size	99 x 36 x 120 mm
Weight	300 g
Supply	230 V \pm 10% (50/60 Hz) Other power supplies available in option

Environmental specifications

Reference range	23°C \pm 1°C (45 to 75% w/o condensing)
Operating reference range	0 to 50°C (RH: 20 to 75% w/o condensing)
Limit operating range	-10°C to +50°C (RH: 10 to 80 % w/o condensing)
Indice de protection	IP40 in ABS case IP65 in watertight metallic case

Models and accessories

Instrument:

Ordering reference code: DC voltage-AC voltage-DC current-AC current-Process with scaling-Display-Metal enclosure-Light setting

DC voltage:

200 mV	V12
2 V	V13
20 V	V14
200 V	V15
650 V	V16

AC voltage:

650 V	V76
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DC current:

Internal Shunt 2 A I26

AC current:

2 A	I33
20 A	I34
200 A	I35

Process with scaling (4-20 mA / 0-10 V / 0-5 V):

Custom request	D50
4-20 mA/0-100%	D51

Display:

Red	R
Green	V

Isolated power supply:

48 V~	9
230 V~	8
115 V~	7



24 V~	6
36 to 72 V-	5
18 to 36 V-	4
9 to 18 V-	3
5 V-	2

Metal enclosure:

Without	0
With	1

Light setting:

Without	0
With	1

Accessories:

AMD001	Adapter for 75 x 25 mm
PEM40254-001B	Metal Enclosure VNE2/TNE2, Waterproof front side