

DIGITAL PANEL METERS

Electrical measurements 2000 points VNE 2



VNE2 panel meters are well designed for industrial areas: hard 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.

- Dimensions : 72 x 24 mm
- Internal power supply transformer
- LED Display, 14 mm LED

Functions

Function	Gauge	Resolution	Accuracy (1)	Input impedance	Remarks
DC Voltage	200 mV	100 μ V	0,1 % + 100 μ V	> 100 M Ω	Optional decimal point command
	2 V	1 mV	0,1 % + 1 mV	1,1 M Ω	
	20 V	10 mV	0,1 % + 10 mV	1 M Ω	
	200 V	100 mV	0,1 % + 0,1 V	1 M Ω	
	650 V	1 V	0,1 % + 1 V	10 M Ω	
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 - 1 000 A or internal 2 - 20 - 200 mA
AC voltage	650 V	1 V	2 V	900 k Ω	Band-width 40 Hz to 400 Hz
AC current	2 A	1 mA	1 % + 2 mA		} Delivered with transformer (2 - 20 ou 200 A) For secondary of CT 1 or 5A non-included
	20 A	10 mA	1 % + 20 mA		
	200 A	100 mA	1 % + 0,2 A		
	On request	100 mV / 1000 pts	0,3 % + 2		
Process signals with scaling	0 - 5 V	Display \pm 2000	0,1 % of scale end + 1	1 M 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.
	0 - 10 V	points		1 M Ω	
	4 - 20 mA	For scale begin		50 Ω	
	0 - 20 mA	and end		50 Ω	

(1) In \pm (% of reading + number of units) at 23 \pm 1°C for 1 year.

MEASURE AND CALIBRATION

Main characteristics

Display.....

2000 measurement points (3 ½ digits),
Red LED (green or yellow in option), height: 14 mm.
Overload indication by extinction of the 3 last digits.

Automatic polarity and zero.....

Measurement rate.....

2.5 measurements per second

Temperature coefficient.....

≤ accuracy / 10°C

Common mode rejection.....

≥ 110 dB at 50 Hz

Serial mode rejection.....

≥ 60 dB at 50 Hz

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 (Ø<12mm) for 200 A range.

Operating conditions.....

Nominal field of use : 0 to + 50 °C
Limit field of use : -10 to + 50°C

Power supply.....

230 V~ (± 10 %) 50 to 60 Hz

Other power supplies :

6 V- ± 20 % non-insulated,
5 V- ± 10 % insulated,
9 to 18 V- insulated,
18 to 36 V- insulated,
36 to 72 V- insulated,
24 V~ ± 10 % insulated,
48 V~ ± 10 % insulated,
115 V~ ± 10 % insulated.

Consumption.....

4 VA max

Presentation.....

ABS Case.
Sealing IP 40
Weight : around 300 g.

Connections.....

Removable screwing connector

Options

Backlight display setting

External decimal dot commutation

command (for V- models).

Non insulated analog output

For process models D50 and D51.
1 mV/digit. Acceptable load ≥ 2 kΩ.

Waterproof metal box

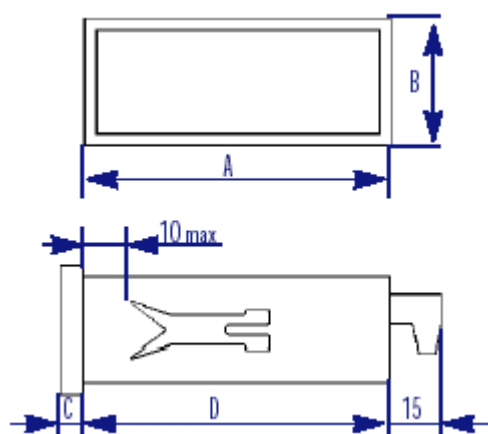
IP 65 Front panel
Dimensions : 99 x 36 x 120 mm

Accessories

Mechanic adaptor.....

Allows adaptation of VNE into slightly larger cutout
Adaptation of 75x25mm panel meters
External dimensions 80x32mm

Dimensions



Case	A	B	C	D	Panel cut
72 x 24	72	24	5	103	$68^{+0.8}_0 \times 22.2^{+0.3}_0$

MEASURE AND CALIBRATION

Instructions to order

Indicator	VNE 2	
		<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <div style="display: flex; justify-content: space-around; width: 100px;"> <div>...</div> <div>...</div> <div>...</div> <div>...</div> <div>...</div> </div> </div>
		<div style="display: flex; justify-content: space-around; width: 100px;"> <div>▲</div> <div>▲</div> <div>▲</div> <div>▲</div> <div>▲</div> </div>
		Reference to defer above
Direct voltage		
200 mV	V12	
2 V	V13	
20 V	V14	
200 V	V15	
650 V	V16	
With precision adjustment	V17	
Alternative voltage		
650 V~	V76	
Direct current		
100 mV on external shunt	I10	
100 mV on internal shunt	I20	
2 A	I26	
Process signals with scaling (4-20 mA, 0-10 V, 0-5 V)		
On request	D50	
0-100%	D51	
Display		
Red	R	
Green	V	
Yellow	J	
Power supply		
6 V-	1	
5 V-	2	
9 to 18 V-	3	
18 to 36 V-	4	
36 to 72 V-	5	
24 V~	6	
115V~	7	
230 V~	8	
48V~	9	
Case		
Plastic	0	
Impervious & Metallic	1	
Luminosity adjustment		
Without	0	
With	1	



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