



## VNE 20

Monofunction digital panel meter for  
DC voltage and process

VNE 20 is a 20,000-point monofunction digital panel meter 96 x 24 mm for DC and process voltage measurements.

## Description

VNE 20 is a 20,000 monofunction digital panel meter 96 x 24 mm for DC voltage and process. It offers high accuracy and resolution. It is possible to change the configuration of measurement type, range, limits and scaling. The configuration of these parameters is protected against any inopportune modifications.

- Panel meter size: 96 x 24 mm
- IP40 protected
- LED display, 14 mm high, in red, green or yellow
- Measurement, display and scaling of:
  - DC voltage up to 650 V
  - Process signals with scaling
- Analogue output 0.1 mV/digit
- 9 different power supplies available

# Specifications

## Electrical measurement indicator

| Type                         | Range                                         | Resolution                                           | Accuracy (1 year)<br>(23°C ±1°C)                                                  | Input impedance                                    | Comment                                                                             |
|------------------------------|-----------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| DC voltage                   | 200 mV<br>2 V<br>20 V<br>200 V<br>650 V       | 10 µV<br>100 µV<br>1 mV<br>10 mV<br>100 mV           | 0.05% + 20 µV<br>0.05% + 0.2 mV<br>0.05% + 2 mV<br>0.05% + 20 mV<br>0.05% + 0.2 V | > 100 MΩ<br>> 100 MΩ<br>1.1 MΩ<br>1.1 MΩ<br>1.1 MΩ |                                                                                     |
| Process signals with scaling | 0 - 5 V<br>0 - 10 V<br>4 - 20 mA<br>0 - 20 mA | Display<br>±20,000 points<br>For scale begin and end | 0.05% of scale + 1                                                                |                                                    | The input and the scale are defined at the order and can't be modified by the user. |

Temperature coefficient:  $\leq (0.01\% + 0.2)/^{\circ}\text{C}$

Common rejection mode:  $\geq 140$  dB at 50 Hz

Serial rejection mode:  $\geq 80$  dB at 50 Hz

## Further features

|                                              |                  |
|----------------------------------------------|------------------|
| Measurement hold and decimal dot commutation | External command |
| Zeroing and polarity                         | Automatic        |
| Sampling rate                                | 2.5 samples / s  |

## General specifications

|        |                                                                            |
|--------|----------------------------------------------------------------------------|
| Size   | 96 x 24 x 103 mm                                                           |
| Weight | 300 g                                                                      |
| Supply | 230 V at $\pm 10\%$ (50/60 Hz)<br>Other power supplies available in option |

## Environmental specifications

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Reference range           | 23°C $\pm 1^{\circ}\text{C}$ (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<br>IP65 in watertight metallic case     |



## Models and accessories

### Instrument:

Ordering reference code: VNE20-DC voltage-Display-Isolated power supply

### DC voltage:

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

### 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 |