

Temperature measurements 2000 points TNE 2



Digital panel meters TNE2 can be used with temperature sensors. Temperature is displayed in °C. Those industrial apparatus are automatically delivered with a removable screwing connector, and an analog output. The large readable display is made of red LED (green or yellow in option)

- -200 to +1200°C
- Dimensions : 72 x 24 mm
- Linear analog output
- Display : 14 mm LED

Functions

Thermocouples Temperature, K or J.....

(response curves according to NFC 42 321 (CEI 584/1))

Type	Range	Resolution	Accuracy (1)
K	-35.0 to +199.9°C	0.1°C	0,1% + 0,3°C
	-70 to +1200°C	1 °C	0.1% + 2°C
J	-80 to +940°C	1 °C	0.1% + 2°C

(1) ± (% of reading + digit degrees) at 23°C +/- 1°C for one year

The correction of reference junction is into the screwing connector. Maximal uncertainty due to reference junction: 0.5°C; if external CJC: 0.3°C

RTD Temperature, Pt100.....

(response curves according to NFC 43 760 (CEI 751))

Range	Resolution	Accuracy (1)
-150.0 to +199.9°C	0.1°C	0.1% + 0.3°C
-200 to +650°C	1 °C	0.1% + 2°C

(1) ± (% of reading + digit degrees) at 23°C +/- 1°C for one year

3 wires mounting.
Acceptable line resistance :
10 ohm per wire (maximum unbalanced between wires 0.04 Ω)
Measurement current in sensor < 0.4 mA.

General Characteristics

Display.....

2000 points (3 ½ digits), 14 mm height red LED (green or yellow in option), setting of brightness. The last 3 digits switch off when overload occurs

Automatic zeroing and polarity.

Sampling rate.....

2.5 measurement per second

Temperature coefficient.....

≤ accuracy/10°C

Security in case of breakdown of sensor.....

makes decrease the measurement down to minimum value

Linear analog output.....

1mV/digit
linearity +/- 0,1%
acceptable load > = 2kohm
non insulated analog output

DIGITAL PANEL METERS

Operating conditions.....

Nominal conditions : 0 to + 50 °C
Limit conditions : -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.
I IP 40
Weight : 300 g. approximately
Connections
Removable screw connector

Connection.....

Removable screw connector

Options

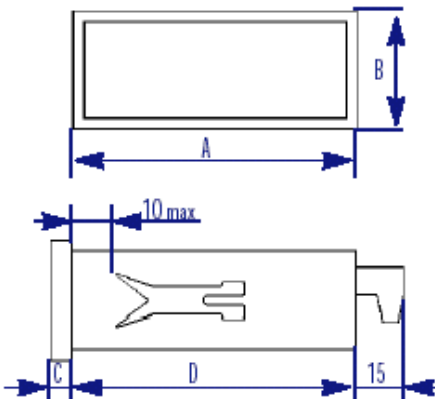
Watertight metallic case
IP 65 Front panel watertight
Dimensions : 99 x 36 x 120 mm

Accessories

Mechanic adaptator

Allows adaptation of VNE into
slightly larger cutout
Adaptation of 75x25mm panel
meters
External dimensions 80 x 32 mm

Dimensions



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

Instructions to order

Digital panel meter VNE 2



Reference to defer
above

Pt100 accuracy 1°C P10
Pt100 accuracy 0,1°C P11
TC K accuracy 1°C K60
TC K accuracy 0,1°C K61
TC J accuracy 1°C J40

Display

Red.....R.....
Green.....V.....
Yellow.....J.....

Power supply

6V.....1.....
5V.....2.....
9 to 18V.....3.....
18 to 36V.....4.....
36 to 72V.....5.....
24V.....6.....
115V.....7.....
230V.....8.....
48V.....9.....

Case

Plastic.....0.....
Impervious & Metallic.....1.....

Options and accessories.....

Flange (72 x 24 mm) AMD001
Display meter 12 channels refer to manual BCM012



AOIP
BP 182
91006 EVRY CEDEX France
+33 1 69 36 50 60
www.aqip.com

