

TNE2

Monofunction panel meter for temperature measurements

TNE2 is a 2,000 point monofunction digital panel meter 72 x 24 mm for temperature measurements.

Description

TNE2 is a 2,000 monofunction digital panel meter 72 x 24 mm for temperature measurements. It can be used together with temperature sensors. Temperature is displayed in °C. Those industrial instruments are automatically delivered with a removable screwing connector and an analogue output.

The large readable display is made of red LEDs (green or yellow in option).

- Panel meter size: 72 mm x 24 mm
- IP40 protected
- Measurement and display of:
    - Temperature with thermocouples type K or J
- Temperature with thermoresistance

Specifications

Temperature indicator

Sensor type	Range	Resolution	Accuracy (1 year) (23°C ±1°C)
Tc K	-35 to +199.9°C -70 to 1200°C	0.1°C 1°C	0.1% RDG + 0.3°C 0.1% RDG + 2°C
Tc J	-80 to +940°C	1°C	0.1% RDG + 2°C
Pt100	-150 to +199.9°C -200 to +650°C	0.1°C 1°C	0.1% RDG + 0.3°C 0.1% RDG + 2°C

Temperature coefficient: ≤ accuracy/10°C.
Thermocouples:
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

Pt100:
3 wires mounting.
Acceptable line resistance: 10 ohm per wire (maximum unbalanced between wires 0.04 Ω)
Measurement current in sensor: < 0.4 mA

Further features

Linear analogue output	1 mV / digit Linearity: ±0.1% Acceptable load: 2 kW Non insulated analogue output
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 ±10% (50/60 Hz) Other power supplies available in option

Environmental specifications

Reference range	23°C ±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: Type-Display-Power supply-Metal enclosure

Type:

Pt100 resolution 1°C	P10
Pt100 resolution 0.1°C	P11
Type J resolution 1°C	J40
Type K resolution 1°C	K60
Type K resolution 0.1°C	K61

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

Accessories:

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