



## 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)<br>(23°C ±1°C)   |
|-------------|------------------------------------|--------------|------------------------------------|
| Tc K        | -35 to +199.9°C<br>-70 to 1200°C   | 0.1°C<br>1°C | 0.1% RDG + 0.3°C<br>0.1% RDG + 2°C |
| Tc J        | -80 to +940°C                      | 1°C          | 0.1% RDG + 2°C                     |
| Pt100       | -150 to +199.9°C<br>-200 to +650°C | 0.1°C<br>1°C | 0.1% RDG + 0.3°C<br>0.1% RDG + 2°C |

Temperature coefficient:  $\leq$  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  $\Omega$ )

Measurement current in sensor: < 0.4 mA

## Further features

|                        |  |
|------------------------|--|
| Linear analogue output | 1 mV / digit<br>Linearity: $\pm 0.1\%$<br>Acceptable load: 2 kW<br>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 $\pm 10\%$ (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                                      |

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