

PN6K 2V series

Portable indicator for thermocouple K PN6 2 channels

Ref : 2848

Rev : A



DESCRIPTION

This portable temperature indicator, featuring a 3 1/2-digit LCD display, is designed to be paired with two K-type thermocouples. It allows temperature measurements to be made in both degrees Celsius and degrees Fahrenheit. It also makes it possible to switch from the measurement of one thermocouple to another but also to provide the temperature difference between the two thermocouples.

TECHNICAL CHARACTERISTICS

PARAMETERS	VALUES
Measuring range	-50 to 1300 °C (-58 to 2000 °F)
Temperature unit	Celsius or Fahrenheit
Resolution	Low: 1 °C or 1 °F High: 0.1 °C or 0.1 °F
Measuring accuracy	± (2 °C) from -50 °C to 0 °C ± (0.3% of displayed value + 1 °C) from 0 °C to 600 °C ± (0.5% of displayed value + 1 °C) from 600 °C to 1300 °C ± (4 °F) from -58 °F to 32 °F ± (0.3% of displayed value + 2 °F) from 32 to 1100 °F ± (0.5% of displayed value + 2 °F) from 1100 to 2000 °F
Sensor response time	2.5 measures / second
Input connection	Miniature male connectors for thermocouple
Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Relative humidity	0 to 80 % RH (0 to 35 °C / 32 to 95 °F) 0 to 70 % RH (35 to 50 °C / 95 to 122 °F)
Screen	LCD 3 1/2 digits display (maximum display 1999)
Supply	9V battery
Battery lifespan	200 h with alkaline battery
Dimensions	184 x 62 x 35 mm (Long x Width x Thickness)
Weight	Approx. 300 g

TECHNICAL FEATURES

T1 / T2

To view the temperature measured by the thermocouple connected to the T1 or T2 input, press the corresponding T1 or T2 button. An indication will be displayed on the screen to inform which thermocouple is in use.

T1-T2

Pressing *T1-T2* displays the result of the temperature difference between the T1 thermocouple and the T2 thermocouple. An indication will be displayed on the screen to inform that this mode is in use.

MIN/MAX

Pressing *MIN/MAX* once activates the recording of minimums and maximums. By pressing *MIN/MAX*, the minimums or maximums are selected. A long press of 2 seconds exits this function.

HOLD

Pressing *HOLD* activates the HOLD mode, the indication "HOLD" is displayed on the screen. Once this mode is engaged, the device stops the measurement by keeping the last value obtained on the screen. Pressing the button again allows you to exit the mode to resume the measurement.

Resolution mode

The device allows two resolution modes:

- Low resolution: 1.0°C or 1.0°F
- High resolution: 0.1°C or 0.1°F

Pressing *1/0.1°* switches between resolution modes.

The high-resolution mode can only be used for temperatures below 200°C or 200°F.

Temperature unit selection

Since the device allows measurement in both degrees Celsius (°C) or degrees Fahrenheit (°F), a press of *°C/°F* allows switching from one unit to another.

When the device is turned on, the selected temperature unit will be the same as that used when the device was put to sleep.

Adjustment of the OFFSET

The offset is initially set to factory setting but can be adjusted at any time for each thermocouple separately.

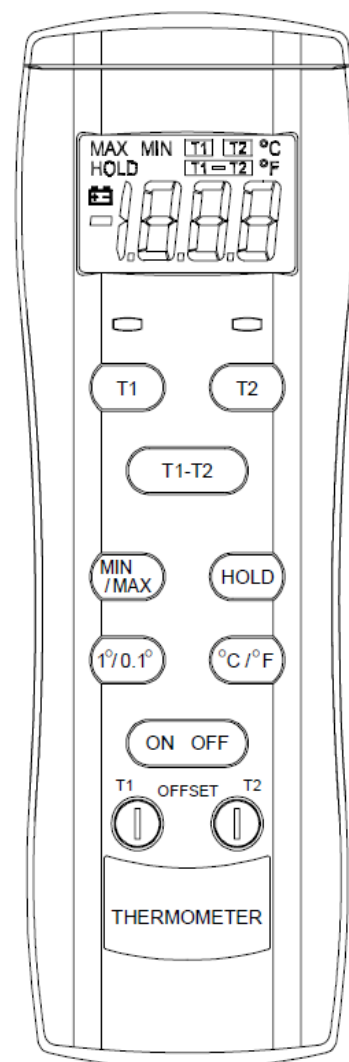
To do this, connect the thermocouple to the device and select the high-resolution mode. Place the thermocouple in a stable environment against a surface whose temperature you know and wait for the device to stabilize. Then slowly adjust the OFFSET of the thermocouple to be set, T1 or T2, to the known temperature, allowing time for the device to stabilize. The calibration of your device with the thermocouple is now optimized.

Sensor detection

A red LED will be lit if no thermocouple is connected to the unit or if no thermocouple is connected to the selected input (T1 or T2). If a thermocouple is plugged in and the LED is lit, check the thermocouple that could be damaged.

Low-battery indication

The device is powered by a 9V battery. When the latter is almost fully used, an indication appears that its replacement is necessary shortly. The battery is replaced by unscrewing the screw on the back of the device to access the compartment.



CONTACT

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