

PN 6-1v univ series

*Portable thermometer for
K, J, E, T, N, R and S thermocouples*

Ref : 2849

Rev : A



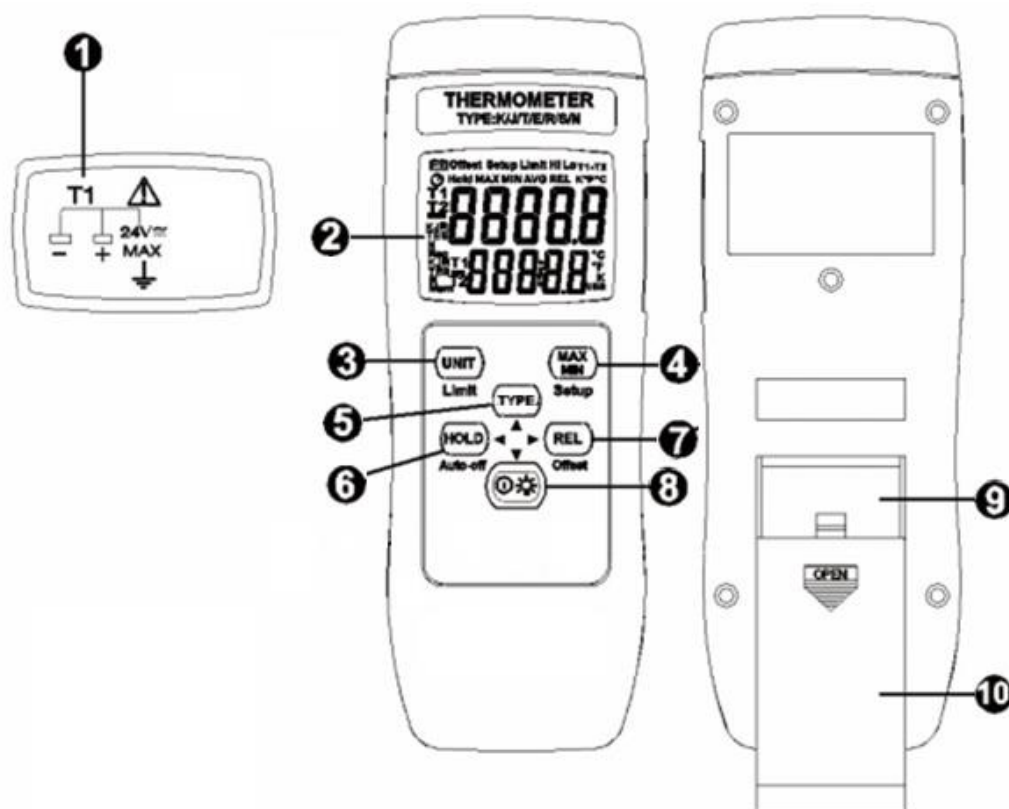
DESCRIPTION

This portable temperature indicator, featuring a 5-digit LCD display, is designed to be paired with a K, J, E, T, N, R or S thermocouple. It allows you to visualize real-time temperature measurements in degrees Celsius, degrees Fahrenheit and degrees Kelvin.

TECHNICAL CHARACTERISTICS

PARAMETERS	VALUES
Measuring range	K : -200 ~ 1372 °C (-328 ~ 2501 °F) J : -210 ~ 1200 °C (-346 ~ 2192 °F) E : -210 ~ 1000 °C (-346 ~ 1832 °F) T : -250 ~ 400 °C (-418 ~ 752 °F) N : -150 ~ 1300 °C (-238 ~ 2372 °F) R, S : 0 ~ 1767 °C (32 ~ 3212 °F)
Resolution	Type K, J, E, T et N : 0.1 Type R et S : 1
Measuring accuracy	Type K, J, E, T et N : ± (0.05% of displayed value + 0.7 °C/1.4 °F) from -250 to -100 °C (-418 to -148 °F) ± (0.5% of displayed value + 0.7 °C / 1 °F) from -100 to 1372 °C (-148 to 2501 °F) Type R et S : ± (0.05% of displayed value + 2°C / 4 °F) from 0 to 1767 °C (32 to 3212 °F)
Temperature coefficient	0.01% of displayed value + 0.03 °C (0.00028 °F) per °C (°F)
Measuring unit	°C / °F / K
Display	LCD 5 digits (display up to 99999)
Battery type	9V battery
Battery lifespan	Approx. 100 hours
Operating temperature	0 to 50 °C (32 to 122 °F)
Operating humidity	< 80 % RH
Storage temperature	0 à 50 °C (32 à 122 °F)
Storage humidity	< 80 % RH
Input connexion	Miniature male connector
Dimensions	155 x 56 x 38 mm (Long x wide x high)
Weight	Approx. 170 g
Certification	CE – ITS-90

TECHNICAL FEATURES



1 Input thermocouple T1

2 LCD display

3 Button for unit selection °C / °F / K

4 MAX MIN AVG button / SETUP button

5 Button for thermocouple selection

6 Button HOLD / Auto Power off

7 Relative value / OFFSET button

8 Power button / backlight

9 Battery compartment

10 Battery compartment top

DESCRIPTION OF THE DEVICE'S FEATURES

POWER

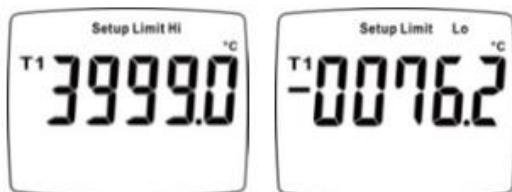
Press the *POWER* button to turn on the device. A second press turns it off.

Screen backlight

Press the *POWER/Backlight* button for 2 seconds to activate the screen backlight.

This feature automatically turns off 15 seconds after activation to save battery power.

Alarm/limit function



The device has a function to select a minimum value ("Limit Lo") and a maximum value ("Limit Hi") that will trigger an alarm in case of exceedance during measurement. To set them, press the *UNIT* button for 2 seconds to enter or exit the "alarm" menu. Then simply select and adjust the desired min and max values using the directional arrows.

Thermocouple Type Selection

Pressing the *TYPE* button selects the type of thermocouple to associate with the device.

HOLD function

Pressing the *HOLD* button freezes the values displayed on the screen, thus stopping the measurement.

Pressing again allows you to exit this mode.

Auto-Power OFF function

The device is set to turn off automatically after 15 minutes of use.

Pressing the *HOLD* button for more than one second enables or disables this feature.

Relative Value Measure function



This device allows you to define the temperature difference between two T1-T2 measurements thanks to its "relative value measurement" function. To do this, once the thermocouple measures the desired T1 temperature, press the *REL* button to record this measurement. Subsequently, the device will subtract between this recorded temperature T1 and the temperature measured in real time. Pressing the *OER* button again exits this function.

OFFSET function




The device also has a function to configure an Offset to make a correction of the measurement in real time. To do this, press the *HOLD* button for 1 second to activate this function and enter the configuration menu. The *TYPE* (top) and *POWER* buttons then adjust the offset value (up to a minimum/maximum of ± 5 °C/K or ± 9 °F). Once the setting is complete, press the *SETUP/MIN* button to save the chosen value.

The device will then automatically save this offset value and keep it as the default. This value will then be used for each measurement even if the device has been switched off in the meantime.

MIN/MAX/AVG function

MAX ⇨ **MIN** ⇨ **AVG** ⇨ **MAX MIN AVG**



The MIN/MAX/AVG function enables to display and remember, while active, the minimum and maximum values as well as the average measured since the function was activated. The device will continue to update the new values until the feature is disabled. To choose this measurement mode, press the *MAX MIN* button.

A new press of this button allows you to switch from one displayed value to another by following the following diagram:



Pressing the *MAX MIN* button for two seconds exits this mode.

Temperature Unit Selection

Pressing the *UNIT* button allows you to change the unit of measurement to be defined between degree Celsius (°C), degree Fahrenheit (°F) and degree Kelvin (K).

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