PN 6K 1V series
Portable indicator for thermocouple K PN6 1 channel

Ref : 2153
Rev : C

DESCRIPTION

This portable temperature indicator, featuring a 3 1/2 digits LCD display, is designed to be paired with a Type K thermocouple. It allows temperature measurements to be made in both degrees Celsius and degrees Fahrenheit.

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	± (0.3% of displayed value + 1 °C) from -50 °C to 1000 °C ± (0.5% of displayed value + 1 °C) from 1000 °C to 1300 °C ± (0.3% of displayed value + 2 °F) from -58 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 screen (maximum display 1999)
Supply	9V battery
Battery lifespan	200 h with alkaline batteries
Dimensions	184 x 62 x 35 mm (Long x Width x Thickness)
Weight	Approx. 300 g

TECHNICAL FEATURES

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

HOLD
Pressing *HOLD* activates the HOLD mode, the indication "HOLD" is then 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.

Selection of the temperature unit
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.
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 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 device. If a thermocouple is plugged in and the LED is lit, check the thermocouple that could be damaged.

Low battery indicator
The device is powered by a 9V battery. When the latter is almost fully used, a symbol appears to indicate that its replacement is needed shortly. The battery is replaced by unscrewing the screw on the back of the device to access the compartment.
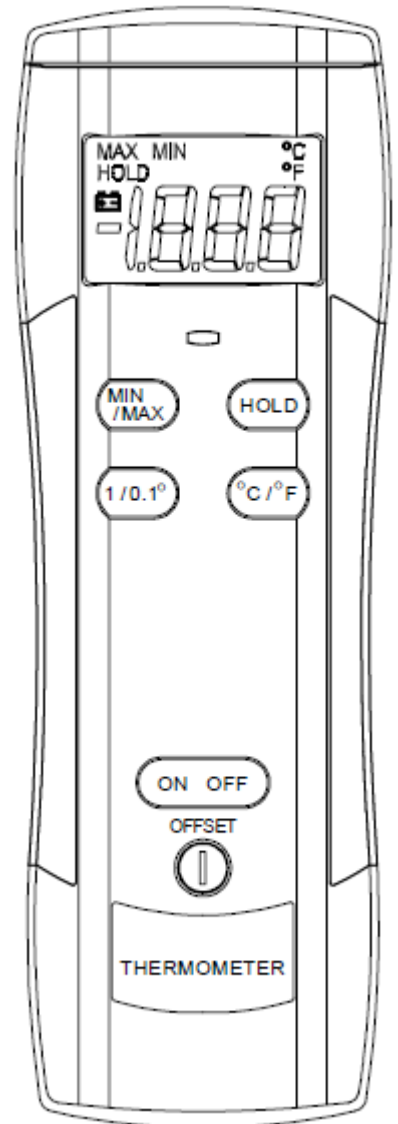
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