



**0320-K230  
THERMOCOUPLE THERMOMETER  
(K-TYPE )  
OPERATION MANUAL**

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VIDEO OF PRODUCTS.



## Feature

- Contact K-type thermocouple
- Unit: °C/°F
- Data hold function
- Low battery display
- Display backlight

## Specification

Temperature range	-50°C~400°C/1-58°F~752°F
Temperature accuracy	+2.0°C±3.6°F
Temperature resolution	0.1°C(at -50°C~199.9°C), 1°C(at -50°C~400°C) 0.1°F(at -58°F~199.9°F), 1°F(at -58°F~752°F)
Sampling rate	2.5 times/sec
Power supply	3x3V CR2450 batteries (for 300 hours working)
Operating voltage	6.8V~10V
Storage condition	Temperature: 0°C~50°C/32°F~122°F Humidity: <80%RH
Dimension	149x76x34mm
Weight	220g

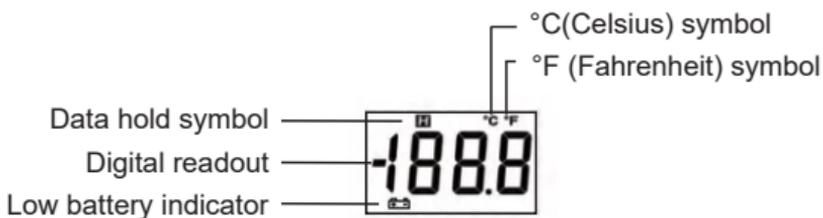
\* Accuracy calibration environment: 23°C±5°C.

\* Ambient temperature coefficient: 0.1×accuracy/°C below 18°C or above 28°C.

## Panel Description



## LCD Screen Description



## Measurement Operation

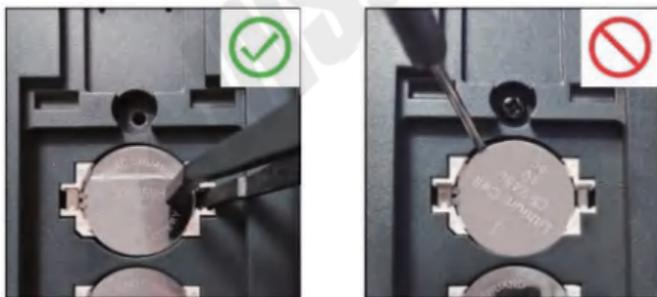
1. Press the "Power" button to power on. Preheat for one minute, then insert the thermocouple probe into the input port.  
Note: Both input port and two pieces of the thermocouple are distinguished by positive (+) and negative (-) polarity. When inserting, they are inserted by the way of positive to positive and negative to negative. If they are reversed, they cannot be measured correctly.
2. Toggle the °C/°F switch button and 0.1°/1° select button, select the required unit and resolution, and let the front end of the thermocouple fully contact the workpiece, and wait for a period of time until the measured data is stable.
3. Read the display value or press the "Data hold" button to keep the current measurement value for easy reading. After finishing reading the data, Press the "Data hold" button for the second time to exit the reading hold state.
4. Note that at the "0.1°" resolution measurement state, when the measurement temperature exceeds 199.9 °C, the instrument display "1", which indicates that it is out of range. Please press "1" to switch the resolution and continue the measurement. The measurement gear can up to 400°C.
5. Power on and off the backlight: Press the "Backlight" button to turn on the backlight When the working environment is dark. After the measurement is completed, turn off the backlight in time to extend the battery life.

## Battery Replacement

1. Please correctly install the batteries provided by our company before using this instrument for the first time.
2. The low voltage reminder "  " will appear on the LCD display when the battery is insufficient, which indicates the battery must be replaced.
3. Please pay attention to it when replacing the battery.
  - a) Turn off the instrument and then open the battery back cover.
  - b) Remove and install the battery in the right way.
  - c) After installing the battery, close the battery back cover and tighten the screw.

How to remove the battery properly:

Use antistatic tweezers to lift the battery from the right gap of the battery holder. Do not remove the battery by violence or disassemble it by conductive objects!



How to install the battery correctly:

The "+" pole of the battery is upward and insert it in the direction of 45° angle from the right to left of the battery holder, then pressed down so that the battery is installed into the battery holder. Do not install the battery randomly in case damaging the battery holder.

## Battery Replacement



## Maintenance

- 1.If the screen display "1", it means the thermocouple is not connected, the contact is poor or the input is out of range.
- 2.If the backlight is turned on during use, please turn off the backlight and turn off the machine after use to prolong the battery life.
- 3.Do not contact the thermocouple to the charged objects, so as not to burn the instrument.
- 4.When the thermocouple is exposed to high temperature, the outer asbestos material will carbonize, turn yellow and black, which doesn't affect the accuracy.
- 5.Thermocouples should not come into contact with corrosive chemicals directly in case damaging the probe.
- 6.Avoid sun exposure and avoid falling.
- 7.Pay attention to water proof and dust proof and keep the instrument dry and clean



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