

USER MANUAL

PT-500 HI-ACCURACY THERMOMETER



***Please read this user manual thoroughly before using
this unit and keep it for your future reference.***

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1. SAFETY

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual;

ENVIRONMENT CONDITIONS:

Altitude up to 2000 meters

RH \leq 90% (Non-Condensation)

Operating Temperature: -20°C to 60°C

MAINTENANCE

Repairs or servicing not covered in this manual should only be performed by qualified personnel.

Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

 Complies with EMC

2. FEATURES

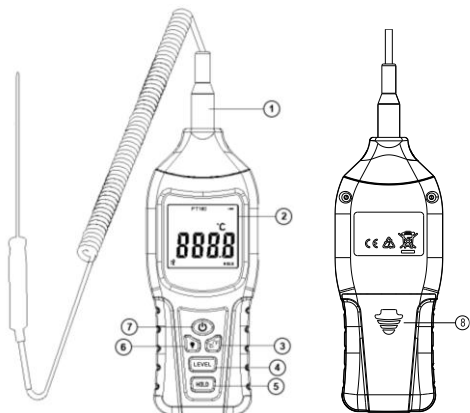
This item is a contact thermometer with PT-100 input. It is widely used for Hi-Accuracy Applications.

- Precise measurement
- PT-100 input
- Selectable 0.1°C or 0.01°C Resolution
- Large 34mm backlit LCD display
- DATA HOLD function
- °C/°F selection
- Auto power off

3. SPECIFICATIONS

| | |
|-------------------|---|
| Range | -200°C to 400°C or -328.0 to 752.0°F |
| Resolution | Selectable: 0.1°C or 0.01°C 0.01°C (-80 to 200°C) 0.1°C (-200°C to 400°C) |
| Accuracy | ±0.05°C (-80°C to 200°C) ± 0.1°C (Others) |
| Power | 1 x 9V PP3 Battery |
| Weight | 292g |

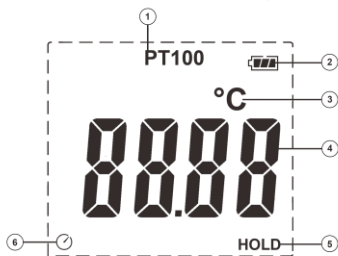
4. METER DESCRIPTION



- ① PT-100 input connector
- ② LCD display
- ③ °C/°F selection button
- ④ Resolution and measuring range selection button
- ⑤ Hold button
- ⑥ Backlight button
- ⑦ Power ON/OFF button
- ⑧ Battery Compartment Cover

5. LCD DISPLAY DESCRIPTION


- ① Sensor Type
- ② Low battery Indicator
- ③ Temp. units icon
- ④ Reading
- ⑤ Data Hold Icon
- ⑥ Auto power off enabled Icon



6. OPERATING INSTRUCTIONS

Operating steps

- 1) Open the battery compartment, install a 9V battery and close the battery compartment cover.
- 2) Connect a PT-100 probe
- 3) Power on the meter to start measurement.

Note: When the low battery icon  appears, replace the meter's battery.

During measuring, the tip of the temperature sensor must be fully connected to the object to be measured.

7. BUTTON FUNCTIONS

1) Power Button

After battery installation press the power button to power on the unit. Hold for three seconds to power the unit off.

2) Backlight Button

When powered on, press the backlight button to turn on/off the backlight.

3) Measurement Unit Button

When powered on, press the measurement unit button to toggle between °C or °F measurement unit

4) Level Button

When powered on, press the Level button to toggle the resolution to 0.01°C with a range of -80°C to 200°C, or 0.1°C resolution with a range of -200°C to 400°C.

5) Hold button

When powered on, press the hold button to freeze the reading on the display. Press again to return to normal mode.

8. NOTES

- Do not store or operate the meter in high temperature or humidity.
- Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.

9. ACCESSORIES

- User manual
- 9V Battery
- Carry Case