

AM8060 PRECISION THERMOMETER

HIGHLIGHTS

- ✓ Accuracy up to $\pm 0.008^{\circ}\text{C}$
- ✓ Resolution 0.001°C
- ✓ Dual channels
- ✓ Data storage into USB flash disk
- ✓ Wireless data transfer to PC



OVERVIEW

AM8060 Precision Thermometer provides high accuracy, fast readings and great stability. It comes with dual channel measurement of temperature with Platinum Resistance Thermometers (PRTs). The temperature of each input and their temperature difference are displayed simultaneously. All of the readings can be stored in a USB flash disk or transferred to PC through a wireless module or an USB cable.

AM8060 Precision Thermometer allows users to choose ITS-90, IEC-751 (DIN), or Callendar-Van Dusen conversion methods to response to various PRTs. Users can also choose to key in calibration data of each PRT to ensure the best accuracy.

This dual-channel readout is a perfect choice for precision temperature measurement and calibration. It's also a top choice as temperature reference for Drywell Calibrators and Temperature Bath.

FEATURES

- High accuracy: up to $\pm 0.008^{\circ}\text{C}$ at 0°C
- High resolution: 0.001°C over the full range
- Temperature range: -200°C to 850°C
- Two inputs for reading two different sensors simultaneously
- Differential temperature measurement
- ITS-90, CVD, IEC-751
- 2.7 inch OLED display
- Full-size Touchpad for function control
- User key-in coefficients to ensure the best accuracy
- Data storage into USB flash disk
- Data transfer to PC using an USB cable
- Wireless data transfer to PC with an optional wireless module

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SPECIFICATIONS

| | |
|-------------------------------------|---|
| Temperature Range | -200°C to 850°C, depending on PRT used |
| Accuracy (meter only) | ±0.01°C @ -200°C ±0.008°C @ 0°C ±0.009°C @ 232°C ±0.01°C @ 420°C ±0.015°C @ 660°C ±0.025°C @ 850°C |
| Resolution | 0.001°C (0.0001 Ω) over full range |
| Probe | Nominal Rtpw: 25 Ω or 100 Ω RTD, PRT or SPRT |
| Characterizations | ITS-90 coefficients, Callender Van Dusen coefficients, IEC-751 (DIN 385) |
| Sample Interval | 1 second |
| Display | 2.7 inch OLED |
| Display Units | °C, °F, Ω |
| Excitation Current | 1 mA, reversing |
| Operation Range | 15 °C to 35 °C |
| Thermometer Input Connectors | Spade plug or bare wire |
| Power Requirements | 100-220V |
| Dimension | 180 mm (W) X 65 mm (H) X 200 mm (D) |
| Weight | 0.3 kg (0.7 lbs) |

OPTIONAL ACCESSORIES

| Model | Description |
|--------------|---|
| 8000-WLM | Wireless module for AM8040 and AM8060 precision thermometer |
| 1610-12/9 | Precision Industrial PRT, -60°C to 160°C |
| 1620-12/9 | Precision industrial PRT, -60°C to 300°C |
| 1640-12 | Precision industrial PRT, -200°C to 420°C |
| 1660-12 | Precision industrial PRT, -200°C to 670°C |
| 1730-12 | Secondary Reference PRT, -200°C to 420°C |
| 1750-12/20 | Secondary Reference PRT, -200°C to 670°C |
| 1850 | Metal-sheath SPRT, -200°C to 500°C |
| 1860 | Metal-sheath SPRT, -200°C to 670°C |
| 1950 | Quartz-sheath SPRT, -200°C to 500 °C |
| 1960 | Quartz-sheath SPRT, -200°C to 670 °C |