

HIGHLIGHTS

- ✓ Accuracy up to $\pm 0.008^{\circ}\text{C}$
- ✓ Resolution 0.001°C
- ✓ Data storage into USB flash drive as easy as plug-n-record



OVERVIEW

AM8040 is a single channel bench top Precision Thermometer. It features high accuracy, fast readings and great stability. It operates with a wide range of Platinum Resistance Thermometers (PRTs). Users can choose to display temperature in $^{\circ}\text{C}$, $^{\circ}\text{F}$ or resistance values. All of the readings can be stored in a USB flash drive or transferred to PC through an USB cable.

AM8040 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 PRT coefficients to ensure the best accuracy.

AM8040 provide a simply solution as a PRT readout to achieve high accuracy at very affordable cost for calibration labs.

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
- ITS-90, CVD, IEC-751 conversion methods or key in coefficients of PRTs
- 2.7 inch OLED display
- Full-size Touchpad for function control
- Data storage into USB flash drive
- Data transfer to PC using an USB cable

SPECIFICATIONS

Temperature Range	-200°C to 850°C
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
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	100-240V
Dimension	180 mm (W) X 65 mm (H) X 200 mm (D)
Weight	0.3 kg (0.7 lbs)

OPTIONAL ACCESSORIES

Model	Description
1610/1620/1640/1660	Precision Industrial PRT, -200°C to 670°C
1730	Secondary Reference PRT, -200°C to 420°C
1750	Secondary Reference PRT, -200°C to 670°C
1760/1762	Secondary SPRT, -200°C to 670°C
1850	Metal-sheath SPRT, -200°C to 500°C
1860	Metal-sheath SPRT, -200°C to 670°C
1880	Metal-sheath SPRT with Bird-Cage sensor, -200°C to 670°C
1950	Quartz-sheath SPRT, -200°C to 500 °C
1960	Quartz-sheath SPRT, -200°C to 670 °C

Ordering Information

Model	Description
8040	Single Channel Precision Thermometer
9003	Carrying case included

HIGHLIGHTS

- ✓ Accuracy up to $\pm 0.008^{\circ}\text{C}$
- ✓ Resolution 0.001°C
- ✓ Dual channels
- ✓ Data storage into USB flash drive as easy as plug-n-record



OVERVIEW

AM8060 Precision Thermometer provides high accuracy, fast readings and great stability. It has two channels that can measure two Platinum Resistance Thermometers (PRTs) at the same time. Users can choose to display temperature in $^{\circ}\text{C}$, $^{\circ}\text{F}$ or resistance values of the two inputs as well as the differences between them. Readings can be stored in a USB flash disk or transferred to PC through 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 great choice for precision temperature measurement and calibration for both lab and field. It offers outstanding performance at a very affordable price.

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 drive
- Data transfer to PC using an USB cable

SPECIFICATIONS

Temperature Range	-200°C to 850°C
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
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	100-240V
Dimension	180 mm (W) X 65 mm (H) X 200 mm (D)
Weight	0.3 kg (0.7 lbs)

OPTIONAL ACCESSORIES

Model	Description
1610/1620/1640/1660	Precision Industrial PRT, -200°C to 670°C
1730	Secondary Reference PRT, -200°C to 420°C
1750	Secondary Reference PRT, -200°C to 670°C
1760/1762	Secondary SPRT, -200°C to 670°C
1850	Metal-sheath SPRT, -200°C to 500°C
1860	Metal-sheath SPRT, -200°C to 670°C
1880	Metal-sheath SPRT with Bird-Cage sensor, -200°C to 670°C
1950	Quartz-sheath SPRT, -200°C to 500 °C
1960	Quartz-sheath SPRT, -200°C to 670 °C

Ordering Information

Model	Description
8060	Dual-channel Precision Thermometer
9003	Carrying case included