

## HIGHLIGHTS

- ✓ Accuracy up to  $\pm 0.008^{\circ}\text{C}$
- ✓ Resolution  $0.001^{\circ}\text{C}$
- ✓ 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  $0^{\circ}\text{C}$
- High resolution:  $0.001^{\circ}\text{C}$  over the full range
- Temperature range:  $-200^{\circ}\text{C}$  to  $850^{\circ}\text{C}$
- 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**

<b>Temperature Range</b>	-200°C to 850°C
<b>Accuracy (meter only)</b>	±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
<b>Resolution</b>	0.001°C (0.0001 Ω) over full range
<b>Probe</b>	Nominal Rtpw: 25 Ω or 100 Ω RTD, PRT or SPRT
<b>Characterizations</b>	ITS-90 coefficients, Callender Van Dusen coefficients, IEC-751 (DIN 385)
<b>Sample Interval</b>	1 second
<b>Display</b>	2.7 inch OLED
<b>Display Units</b>	°C, °F, Ω
<b>Excitation Current</b>	1 mA, reversing
<b>Operation Range</b>	15 °C to 35 °C
<b>Thermometer Input Connectors</b>	Spade plug or bare wire
<b>Power Requirements</b>	100-240V
<b>Dimension</b>	180 mm (W) X 65 mm (H) X 200 mm (D)
<b>Weight</b>	0.3 kg (0.7 lbs)

**OPTIONAL ACCESSORIES**

<b>Model</b>	<b>Description</b>
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**

<b>Model</b>	<b>Description</b>
8040	Single Channel Precision Thermometer
9003	Carrying case included