AM8010 Handheld Precision Thermometer

AccuMac Technology Inc

OVERVIEW

The AM8010 is a handheld precision thermometer with high accuracy, fast readings, and great stability. This readout is perfect for field applications as well as lab measurements. Though small in size, the AM8010 provides excellent accuracy that is as high as 0.03°C at 0°C. Users can choose to display temperature in °C, °F or resistance values. A USB interface allows users to log and display real-time data on a PC.

The AM8010 Precision Thermometer allows users to choose ITS-90, IEC-751 (DIN), or Callendar-Van Dusen conversion methods to respond to various PRTs. Probe coefficients can be keyed in through the front panel to ensure the best accuracy achievable. An ISO/IEC 17025 accredited calibration is included.

This portable readout is a powerful device with a small price.

FEATURES

Accuracy up to ±0.03°C

Resolution of 0.01°C

Dual power supply

USB interface for real-time data saving and displaying on PC

ISO/IEC 17025 accredited calibration included

SPECIFICATIONS

Model	AM8010
Temperature Range	-200°C to 850°C
Accuracy (meter only)	±0.04°C at -200°C ±0.03°C at 0°C ±0.04°C at 232°C ±0.05°C at 420°C ±0.06°C at 660°C
Resolution	0.01 °C (0.001 Ω) over full range
Stability	±0.01 °C per year
Probe	100 Ω RTD, PRT, or SPRT
Characterizations	ITS-90 coefficients, Callendar-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	5-PIN plug
Power Requirements	100-240 V
Battery Life	Approx. 90 hours
Dimensions	141mm (L) x 25mm (H) x 89mm (W)
Weight	0.2 kg (0.5 lbs)

ACCESSORY OPTIONS

Model	Description
9003	Carrying case (included with AM8010)
AM1610-12/9	Precision Industrial PRT, 12in or 9in (Range: -40°C to 160°C)
AM1620-12/9	Precision Industrial PRT, 12in or 9in (Range: -40°C to 231°C)
AM1640-12/9	Precision Industrial PRT, 12in or 9in (Range: -200°C to 420°C)
AM1660-12	Precision Industrial PRT, 12in (Range: -200°C to 670°C)
AM1710-12/9/BEND	Secondary Reference PRT, 12in, 9in, or Bended (Range: -40°C to 160°C)
AM1730-20/12/9/BEND	Secondary Reference PRT, 20 in, 12in, 9in, or Bended (Range: -200°C to 420°C)
AM1751-20/12/BEND	Secondary Reference PRT, 20in, 12in, or Bended (Range: -200°C to 670°C)
AM1762/1760	Secondary SPRTs (Range: -200°C to 670°C)