

AM8010 Handheld Digital THERMOMETER

HIGHLIGHTS

- ✓ Accuracy up to $\pm 0.03^{\circ}\text{C}$
- ✓ Resolution 0.01°C
- ✓ Dual power supply
- ✓ USB interface with PC for real time data saving and displaying on PC



OVERVIEW

AM8010 is a handheld digital thermometer with high accuracy, fast readings and great stability. This readout is perfect for field applications as well as lab measurement. Though small in size, AM8010 is powerful when it comes to accuracy, which can be as high as 0.03°C at 0°C . A USB interface allows user to log and display real time data on a PC.

AM8010 digital thermometer allows users to choose ITS-90, IEC-751 (DIN), or Callendar-Van Dusen conversion methods to response various PRTs. All probe constants and coefficients can be keyed in through front panel.

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

FEATURES

- High accuracy: $\pm 0.03^{\circ}\text{C}$ at 0°C
- High resolution: 0.01°C over the full range
- Temperature range: -200°C to 850°C
- Work with PRTs with $\alpha=0.00385$ and $\alpha=0.003925$
- ITS-90, CVD, IEC-751
- 2.7 inch OLED display
- Full-size Touchpad for function control
- Temperature can be displayed in $^{\circ}\text{C}$, $^{\circ}\text{F}$ or ohm.
- Flexible interface with user key-in coefficients
- USB interface with PC for real time data saving and displaying on PC
- Dual power supply with batteries or external power adaptor/computer USB interface

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SPECIFICATIONS

Temperature Range	-200°C to 850°C, depending on PRT used
Accuracy (meter only)	±0.04°C @ -200°C ±0.03°C @ 0°C ±0.04°C @ 232°C ±0.05°C @ 420°C ±0.06°C @ 660°C ±0.07°C @ 850°C
Resolution	0.01°C (0.001 Ω) over full range
Stability	±0.01°C
Probe	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	5-pin plug
Power Requirements	100-240 V
Dimension	141mm (L) X 25 mm (H) X 89 mm (W)
Weight	0.2 kg (0.5 lbs)

OPTIONAL ACCESSORIES

Model	Description
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
1730-12/9	Secondary Reference PRT, -200°C to 420°C
1750-12/20	Secondary Reference PRT, -200°C to 670°C
1850-100	Metal-sheath SPRT, -200°C to 500°C
1860-100	Metal-sheath SPRT, -200°C to 670°C