

AM8010 Handheld Precision Thermometer **AccuMac** Technology Inc



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FEATURES

Accuracy up to $\pm 0.03^{\circ}\text{C}$

Resolution of 0.01°C

Dual power supply

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

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 $^{\circ}\text{C}$, $^{\circ}\text{F}$ 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.

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

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SPECIFICATIONS

| | 8010 |
|------------------------------|---|
| 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 (0.001Ω) 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 | 100-240V |
| Battery Life | Approx. 90 hours |
| Dimensions | 141mm (L) x 25mm (H) x 89mm (W) |
| Weight | 0.2 kg (0.5 lbs) |

ORDERING OPTIONS

| Model | Description |
|------------|---|
| 9004 | Carrying Case (included) |
| 1610-12/9 | Precision Industrial PRT, -60°C to 160°C |
| 1620-12/9 | Precision Industrial PRT, -60°C to 300°C |
| 1640-12/9 | Precision Industrial PRT, -200°C to 420°C |
| 1660-12 | Precision Industrial PRT, -200°C to 670°C |
| 1710-12/9 | Secondary Reference PRT, -60°C to 160°C |
| 1730-12/9 | Secondary Reference PRT, -200°C to 420°C |
| 1751-20/12 | Secondary Reference PRT, -200°C to 670°C |

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