

## HIGHLIGHTS

- ✓ **Accuracy: up to  $\pm 0.03$  °C**
- ✓ **Resolution: 0.01 °C**
- ✓ **Dual power supply**
- ✓ **USB interface for real time data saving and displaying on PC**



## OVERVIEW

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, AM8010 provides excellent accuracy that is 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 precision thermometer allows users to choose ITS-90, IEC-751 (DIN), or Callendar-Van Dusen conversion methods to response various PRTs. Probe's coefficients can be keyed in through front panel to ensure the best accuracy achievable.

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

## FEATURES

- High accuracy:  $\pm 0.03$  °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 LCD display
- Full-size Touchpad for function control
- Temperature can be displayed in °C, °F or ohm
- Flexible interface with user key-in coefficients
- USB interface for real time data saving and displaying on PC
- Dual power supply with batteries or external power adaptor/computer USB interface

**SPECIFICATIONS**

|                                     |                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Temperature Range</b>            | -200 °C to 850 °C                                                                                        |
| <b>Accuracy (meter only)</b>        | ±0.04 °C at -200 °C<br>±0.03 °C at 0°C<br>±0.04 °C at 232 °C<br>±0.05 °C at 420 °C<br>±0.06 °C at 661 °C |
| <b>Resolution</b>                   | 0.01 °C (0.001 Ω) over full range                                                                        |
| <b>Stability</b>                    | ±0.01 °C per year                                                                                        |
| <b>Probe</b>                        | 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 LCD                                                                                             |
| <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> | 5-pin plug                                                                                               |
| <b>Power Requirements</b>           | 100-240 V                                                                                                |
| <b>Battery Life</b>                 | Approx. 90 hours                                                                                         |
| <b>Dimension</b>                    | 141 mm (L) X 25 mm (H) X 89 mm (W)                                                                       |
| <b>Weight</b>                       | 0.2 kg (0.5 lbs)                                                                                         |

**OPTIONAL ACCESSORIES**

| <b>Model</b> | <b>Description</b>                          |
|--------------|---------------------------------------------|
| 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  |

**Ordering Information**

| <b>Model</b> | <b>Description</b>             |
|--------------|--------------------------------|
| AM8010       | Handheld Precision Thermometer |
| 9004         | Carrying case included         |