



-200 to 850°C

Handheld Thermometer TTI-10



- High Accuracy Handheld Thermometer
- High Resolution, to 0.001°C
- Perfect Standard for use with Isocal-6, Fast-Cal & Dry Blocks

The TTI-10 is a high accuracy handheld temperature indicator with two platinum resistance thermometer inputs. The high precision makes the instrument particularly suitable as a portable reference thermometer to use alongside Isotech temperature calibrators such as the Fast-Cal, Isocal-6 and Dry Block ranges. It is also suited for high accuracy measurements in industrial and scientific applications.

TTI-10 brings laboratory level performance of up to 10mK (0.01°C) and resolution up to 0.001°C in a portable handheld instrument. Battery life is typically 20 hours from a 9V PP3 battery and a protective rubber boot offers protection in field use.

The instrument can capture the minimum, maximum and average values over up to 4000 measurements with a logging rate selectable in the range of 1 second to 30 minutes.

The TTI-10 has an easy to use "learning calibration mode" that allows the TTI-10 to be system calibrated with a Platinum Resistance Thermometer simply by comparing it to a calibrated standard thermometer, no need to calculate coefficients or data, simply enter the reference probe temperature or temperatures and the TTI-10 does the work for you.

The USB interface allows connection to Isotech Cal Notepad software with its charting and logging features.

TTI-10 supports Isotech Semi Standard Platinum Resistance probes with system uncertainties (probe and instrument) as low as 20mK. We recommend the 935-14-61 and 935-14-16 probes detailed below and have special calibration deals available. Other probes and ranges are available, refer to Semi Standards – Platinum Resistance Thermometers in catalogue.



Input Connectors
Highest quality latching metal 'Lemo' connectors.



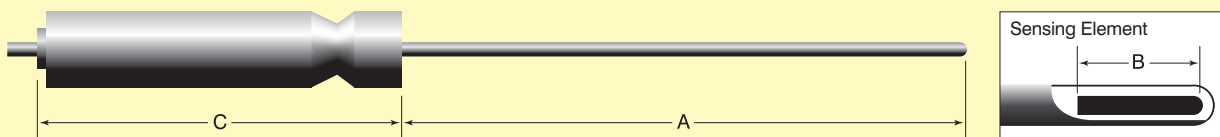
Rubber Sleeve
The TTI-10 Handheld Thermometer is supplied with a protective rubber boot.

Specifications

| | |
|---------------------------|--|
| Input Channels | Two: 100 Ohm PRT, EN 60751 (Pt100), Four Wire |
| Range | -200°C to +850°C |
| Units | °C, °F and Ohms |
| Resolution | 0.001°C from -199.999°C to +199.999°C remaining range 0.01°C |
| Accuracy: Instrument Only | ±0.012°C from -80°C to 199.999°C ±0.02°C ±0.0015% RDG from 200°C to 660°C |
| Logging | Record Average, Min and Max over 4000 measurements |
| Measuring interval | Adjustable: 1 second to 30 minutes |
| PC Interface | USB - Cable Included |
| Connectors | High Quality Latching Metal: Lemo: |
| Working temperature | 0°C to +40°C |
| Display | 2-line LCD Display Single Channel or Dual Channels Simultaneously |
| Housing | Plastic (ABS) supplied with protective rubber boot |
| Dimensions | 200 x 85 x 40 mm (LxWxH) |
| Weight | 300g |
| Power Supply | 9V battery PP3 (or via USB Cable) |
| Battery Life | Typically 20 Hours |

Options

| | |
|--|--|
| Semi Standard PRT 935-14-61-TTI | Isotech Semi Standard Platinum Resistance Thermometer: Fast Response, 4mm x 300mm 6mm Sensing Length 2m Cable Length, four wire with Lemo plug fitted |
| UKAS System Calibration TTI-10-14-61-SYST | Recommended: -50°C to 199.999°C Four Point System Calibration, Uncertainty across range 0.02°C (20mK) |
| Semi Standard PRT 935-14-16-TTI | Isotech Semi Standard Platinum Resistance Thermometer: General Purpose 6mm x 450mm, 25mm Sensing Length: 2m Cable Length, four wire with Lemo plug fitted |
| UKAS System Calibration TTI-10-14-16-SYST | Recommended: 0°C to 420°C Four Point System Calibration, Uncertainty across range 0.04°C (40mK) |



■ Recommended Probes

| Model | Maximum Range | Diameter | Length (A) | Sensing Length (B) | Handle (C) | Cable | Application |
|-----------|-----------------|----------|------------|--------------------|------------|---------|------------------------------------|
| 935-14-61 | -50°C to 250°C | 4mm | 300mm | 6mm | 19 x 120mm | 2m PTFE | Fast Response, Low Stem Conduction |
| 935-14-16 | -100°C to 450°C | 6mm | 450mm | 25mm | 19 x 120mm | 2m PTFE | General Purpose |