-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.

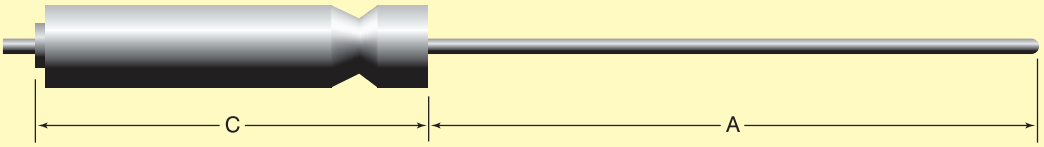
Rubber Sleeve
The TTI-10 Handheld Thermometer is supplied with a protective rubber boot.

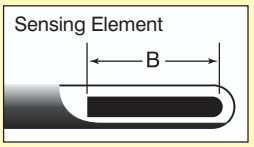
Specifications

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
Weight	300g
Power Supply	9V battery PP3 (or via USB Cable)
Battery Life	Typically 20 Hours
Dimensions	200 x 85 x 40 mm (LxWxH)

Options

Semi Standard PRT 935-14-112-TTI	Isotech Semi Standard Platinum Resistance Thermometer: Fast Response, 2m Cable Length, four wire with Lemo plug fitted
UKAS System Calibration TTI-10-14-112-SYST	Recommended: -50°C to 199.999°C Four Point System Calibration, Uncertainty across range 0.025°C (25mK)
Semi Standard PRT 935-14-61-TTI	Isotech Semi Standard Platinum Resistance Thermometer: Fast Response, 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 935-14-116-TTI	Isotech Semi Standard Platinum Resistance Thermometer: General Purpose,2m Cable Length, four wire with Lemo plug fitted
UKAS System Calibration TTI-10-14-116-SYST	Recommended: 0°C to 420°C Four Point System Calibration, Uncertainty across range 0.04°C (40mK)
Carrying Case 931-22-101	





■ **Recommended** Probes (Fit TTI-10 Carry Case)

Model	Maximum Range	Diameter	Length (A)	Sensing Length (B)	Handle (C)	Cable	Application
935-14-112/TTI	-50°C to 250°C	3mm	225mm	6mm	No Handle	2m PTFE	Fast Response, Low Stem Conduction
935-14-61/TTI	-50°C to 250°C	4mm	300mm	6mm	19 x 120mm	2m PTFE	Fast Response, Low Stem Conduction
935-14-116/TTI	-100°C to 450°C	6mm	350mm	25mm	19 x 120mm	2m PTFE	General Purpose