



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

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

Recommended: 0°C to 420°C Four Point System Calibration, TTI-10-14-116-SYST 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