Precision Thermometer

Model TTI-8

New High-Performance 2- or 8-channel Precision Digital Thermometer, for calibrated and uncalibrated Pt100 probes, with great new features for increased usability and lower life-costs.

Using calibrated probes with our TTI-8 you choose between storing calibration data into memory in the instrument or into the probe's proprietary 'SMARTER' connector. Calibration data stays permanently with the probe in this connector, which the TTI-8 instantly recognizes, ensuring fool proof measurement. Better yet, the 'SMART' connectors use standard 5 pin DIN connectors, so you can mix 'SMART' and passive connectors on the same input. How's that for versatility?

Until now, calibration meant losing your instrument to a calibration lab, costing time and money. Not any more. We send you a traceable calibrated device ('TCD') to connect to the TTI-8 and using a built-in program, the TTI-8 will calibrate itself. You don't need to use a calibration laboratory, saving you both time and money.

Other exciting new features have been included, like the Probe Temperature Watchdog and the Calibration Status Monitor. Calibrated probes should be used within their calibration temperature limits, outside these and the probe calibration may have been compromised. The Probe Temperature Watchdog keeps you informed.

The TTI-8 delivers! Calibrated or uncalibrated probes, 'SMART' or passive connectors, Pt 100 or Pt 25 thermometers. TTI-8 handles them all with style.

Features

- **Common Inputs for Both 'SMART and Passive Connectors**
- **Single or Differential Measurement**
- **Galvanically Isolated RS232 Interface as Standard**
- **ITS-90, EN60751 and CvD Temperature Conversion**
- **Clear Vacuum Fluorescent Display in °C, °F, K or Ω Plus Channel Selected**
- **Self-Calibrating Against Traceable External Reference**

SPECIFICATIONS

Model	TTI-8
Temperature Range	-200°C to 962°C
Accuracy	±0.01°C over full range
Resolution	0.001°C over range
Repeatability	±2 least significant digits (±0.002°C), included in accuracy
Stability	±0.005°C per year
Temperature Co-Efficient	<0.00005°C per °C ambient change
Data Entry Format	ITS90 coefficients, Callender van Dusen coefficients, or EN60751 for un-calibrated probes.
Probe Current	1mA constant current source
Probe Types	Pt100 to EN60751 with nominal Ro=100 and 25Ω high-alpha probes up to 0.00392
Maximum Cable Length	100 meters of 4 core 19/0.15 SPC/PTFE screened cable
Thermometer Input Connectors	(2 ch.) or (8 ch.) 5 pin industrial DIN socket can be used with passive or proprietary *SMART* connector.
Communications	Galvanically isolated RS232C: 4KV isolation. Baud rate 9600.
Operating Conditions	0°C to 50°C, 10-90% RH non-condensing.
Power	90 to 264VAC universal IEC input, (50/60 Hz) 30VA max.
Overall Dimensions	101.6mm x 152.4mm x 203.2mm (HxWxD)
Weight	2.2 lbs (1kg)

HOW TO ORDER

TTI-8-2	2-Channel Reference Thermometer
TTI-8-8	8-Channel Reference Thermometer