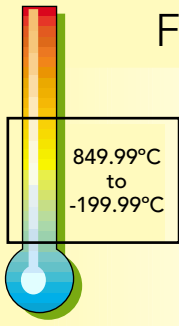


TTI-6

For 3 & 4 Wire PT100's



The TTI-6 is a high precision portable thermometer for metrology and other exacting laboratory applications, the TTI-6 is a proven instrument used World-wide as a laboratory and site standard. It is particularly suitable as the reference standard for temperature calibration baths.

The TTI-6 Digital Thermometer utilises highly advanced microprocessor circuit design to achieve exceptional measuring accuracy, linearisation conformity and stability in a versatile but easy to use configuration.

Based on a high resolution 20 Bit Analogue to Digital convertor, all measurement computations are performed digitally without drift. The 5 LED display provides a readout to 0.01°C over the entire -199.99°C to +849.99°C range; alternatively °F, Kelvin or Ohms values can be displayed up to 999.99 units.

Single or dual Pt100 3 or 4 wire sensors are accepted, the TTI-6 will automatically recognise and select 3 or 4 wire mode. Display of input A, B or A - B (differential) can be selected; a differential "zero function" allows sensor accuracy differences to be eliminated for accurate differential readings.

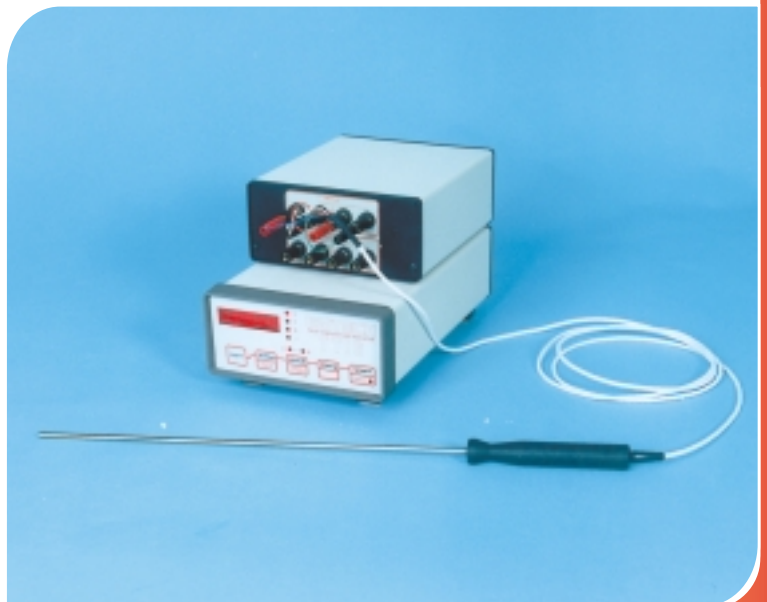
Calibrated sensors can have their calibration points programmed into the TTI-6 via a personal computer using Isotech Software. The instrument then digitally self calibrates to the probe(s) providing corrected temperature readout to give optimum system accuracy.

A common application is for the comparison calibration of a sensor on channel B against a reference standard on channel A. With one of the Selector Switches several sensors can easily be compared to a standard probe on A.

The instrument includes a UKAS certificate as standard (simulation calibrated). Isotech also offers a complete system calibration (probe and instrument combined). Refer to Databook 5 for details.

Key Features

- **Two channel RTD indicator**
- **RS232 and analogue output as standard**
- **Correction facility for optimum system accuracy**
- **Includes UKAS certificate and Cal NotePad Software**



TTI-6 shown with optional Terminal Adaptor and Probe

TTI-6

For 3 & 4 Wire PT100's

Input Type

Temperature Range

Overall accuracy

Pt100

-199.99°C to 849.99°C

±0.02°C ±1 digit for range -200°C to +500°C
±0.005% reading ±1 digit for range 500°C to 850°C

To IEC 751, Amendment 2,
(1995. -199.99 to 849.99°C. Ro=100Ω.
Two input channels, each 3 or 4 wire connection
with automatic recognition (with manual override)

*Note:
Refer to accessory pages
for probe types and
system performance.*

Measurement units °C, °F, K, Ω,

Measurement modes	Input A or B or A-B (differential) Null facility in A-B mode
Custom calibration	Up to 10 calibration values can be allocated to (via PC DOS software) channels A and B. Values are retained in non-volatile memory until replaced by user
Null Function	Corrects differential temperature readout between two sensors to zero
Display	14mm LED, 5 digit, 999.99 range
Front panel controls	5 x membrane keys for user functions
Input Connections	2 x Pt100 via 'Lemo' connectors
Analogue output (standard)	Analogue 0 to 1 Volt d.c. Between programmable (standard) lower and upper set limits representing channel A, B or A-B. Accuracy 0.5% of reading. Non-isolated
Power Supply	Internal chargeable batteries. Mains 220/240V 50/60Hz, adaptor included. Battery life up to 12 hours with full charge dependent on pattern of usage. Charger requirement 10-11.5V d.c. 1A.10W nominal, max 20W
Overall dimensions	Height 145mm Width 66mm Depth 240mm
Weight	1.5kg
How to Order	TTI-6

Options

Carrying Case	931-22-51	Soft vinyl carrying case
---------------	-----------	--------------------------

Model No.	TTI-6
Linearisation Conformity	±0.01°C
Stability (vs ambient temperature)	0.0025°C / °C ambient change
Pt100 Sensor Current	0.5mA nominal
Resolution of data display	0.01°C, K, °F, Ω

Note: All values are valid for a nominal 240V 50Hz supply and 20°C ambient temperature (±2°C)