



THERMOCOUPLE TEMPERATURE METER

Available Models

PSI-TTM1, PSI-TTM2

Temperature is one of the most commonly measured parameter in various fields including air pollution monitoring, process industry and most work places. Accurate and reliable measurement of temperature in various ranges requires a properly designed and working instrument.

Salient Features

- ❖ Built in ambient temperature sensor
- ❖ Compatible with a wide variety of standard thermocouples
- ❖ Simultaneous measurement of Ambient and object temperatures
- ❖ User selectable unit of measurement from °C, °F, K
- ❖ Microprocessor based Design
- ❖ Excellent accuracy and Resolution
- ❖ Backlit Alphanumeric Display
- ❖ Compact and lightweight



Description

PSI-TTM 1 and PSI-TTM 2 are compact hand held microprocessor based instruments which are very similar in their technical specifications and functionality. Each model interfaces with various standard types of thermocouples through a 3-pin connector. Each model includes a built-in solid state sensor for measurement of ambient temperature for providing cold junction compensation (CJC). CJC is applied automatically by the embedded software. The embedded software employs various appropriate polynomial fits for computation of temperature thus providing high degree of accuracy over wide temperature. The user interface comprises a keypad and LCD display. All the electronics is housed in an elegant and sturdy plastic cabinet.

The two models are distinguished by two physical and two electrical parameters. They have slightly different sizes and weights. Electrically they differ in the methodology of battery charging and data transmission.

Detailed Technical Specifications:

	TTM 1	TTM2
Range	0 – 1200 °C	
Accuracy	Typical ± 2 °C (Better accuracy on special request)	
Resolution	1°C (0.1°C on special request)	
Thermocouples	B, E, J, K, N, R,S,T	
Unit Selection	°C, °F & K	
Display	2 lines x 16 character alphanumeric LCD	
Key pad	4 keys	
Key Functions	Power On/OFF Select Units, Enter, Select Thermocouple	Power On/OFF Select Units, Data Transmission, Select Thermocouple
Power	3.6 Volts Li-ion Battery	
Charging Voltage & Charger	5 VDC AC mains adaptor	5 VDC USB
Data Transmission	NA	USB
Connections	Mini-shell 3 pin	
Size	210 L x 105 W x 35 mm D	205 L x 100 W x 35 mmD
Weight	400 grams	400 grams

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