

INTRODUCTION

SmartMeter is a portable dual channel temperature meter which accepts 2 simultaneous thermocouples, Pt100 sensors or mV signals.

It features a slick yet sturdy enclosure with protective rubber corners and improved hand grip. The swivel stand provides bench position and is also a belt carrying fixture.

A high contrast multi-segment LCD display with specific icons shows min/max, hold, difference and average measurements.



FEATURES

- Measures 2 simultaneous thermocouples (types J, K, T, E, N, R, S and B), Pt100 RTD and 0-50mV signals with decimal point.
- Temperature unit Celsius or Fahrenheit.
- User friendly configuration interface.
- Allows a custom range limits configuration for the 0-50 mV input with decimal point.
- Programmable auto shutt off time.
- Low battery indication.
- Internal buzzer for alarm indication.
- Input for external power adaptor.
- Shows min, max and average measurements.
- Shows relative and difference values.
- Hold Function.
- Allows the user to refine calibration values.
- Includes K type thermocouple sensor.
- Long lasting battery life.
- Excelent handling, light and allows belt carrying.
- Sampling rate: 2 measurements per second.

SPECIFICATIONS

- Two independent inputs for thermocouples J, K, T, E, N, R, S and B, Pt100 RTD and 0-50mV.
- Compensates for Pt100 three-wire cable resistance and for t/c cold junction.
- Power: 9 V battery (life time 400 hours using alkaline battery).
- Visual and audible alarm indication.
- Functions: hold, max, min, average, relative and channel difference.
- Input conection: sub-miniature compensated thermocouple and Pt100 input connectors.
- Input for external power adaptor (optional).
- Accuracy: 0.2% FS for Pt100 and 0.25% FS $\pm 1^{\circ}\text{C}$ for thermocouples.
- Plastic enclosure with protective rubber corners.
- Dimensions: 160 x 70 x 35 mm.
- Operating conditions: 0-50 $^{\circ}\text{C}$, 10-90% RH.

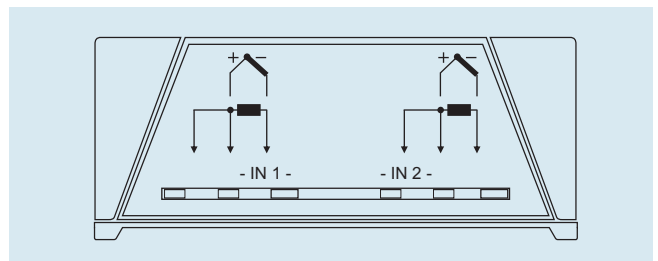
INPUTS AND RANGES

INPUT TYPE	MEASUREMENT RANGE
J thermocouple	- 100 to 760 $^{\circ}\text{C}$ / - 148 to 1400 $^{\circ}\text{F}$
K thermocouple	- 150 to 1,370 $^{\circ}\text{C}$ / - 238 to 2498 $^{\circ}\text{F}$
T thermocouple	- 160 to 400 $^{\circ}\text{C}$ / - 256 to 752 $^{\circ}\text{F}$
E thermocouple	-90 to 720 $^{\circ}\text{C}$ / - 130 to 1328 $^{\circ}\text{F}$
N thermocouple	- 270 to 1,300 $^{\circ}\text{C}$ / - 454 to 2372 $^{\circ}\text{F}$
R thermocouple	- 50 to 1,760 $^{\circ}\text{C}$ / - 58 to 3200 $^{\circ}\text{F}$
S thermocouple	- 50 to 1,760 $^{\circ}\text{C}$ / - 58 to 3200 $^{\circ}\text{F}$
B thermocouple	500 to 1,820 $^{\circ}\text{C}$ / 932 to 3308 $^{\circ}\text{F}$
Pt100	- 200 to 600 $^{\circ}\text{C}$ / - 328 to 1112 $^{\circ}\text{F}$
Voltage	0 to 50 mV

ALARM FUNCTION

TYPE	ACTION
Out of Range	

ELECTRICAL CONECTIONS



K TYPE THERMOCOUPLE

