

# THERMOMETER, 4 channels

Model : TM-903A

ISO-9001, CE, IEC1010



## FEATURES

- \* Type J and Type K thermocouple thermometer.
- \* 4 channel input, T1, T2, T3, T4.
- \* Microcomputer circuit with excellent performance.
- \* Wide temperature measuring range.
- \* °C & °F selection.
- \* 0.1 degree resolution.
- \* Data hold.
- \* Memory function to record the maximum & minimum reading.
- \* Relative measurement.
- \* Sensor select button, easy to change type J or type K probe.
- \* RS 232 data output.
- \* Optional data acquisition software for data record.
- \* Auto power off saves battery life.
- \* Built-in low battery indicator.
- \* Heavy duty & compact housing case with stand.
- \* Powered by 006P DC 9V battery.



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

*Type K/J*

# 4 channels THERMOMETER

Model : TM-903A

## FEATURES

* Type J and Type K thermocouple thermometer.	* Build in a REL button, useful for relative measurement.
* 4 channel input, T1, T2, T3, T4.	* Sensor select button on the front panel, easy to change type J or type K probe.
* Microcomputer circuit with excellent performance.	* RS 232 data output, easy to connect with computer.
* Wide temperature measuring range.	* Optional data acquisition software for data record.
* Build in °C & °F select button on the front panel.	* Auto power off saves battery life.
* 0.1 degree resolution.	* Built-in low battery indicator.
* Data hold function for storing the desired value .	* Heavy duty & compact housing case with stand.
* Memory function to record the maximum & minimum reading.	* Powered by 006P DC 9V battery.

## GENERAL SPECIFICATIONS

Display	51 mm x 32 mm supper large LCD display, 15 mm ( 0.6" ) digit size.
Sensor Type	<i>Thermocouple probe</i> @ Thermocouple type K @ Thermocouple type J
Input Channels	Four input, T1, T2, T3, T4.
Functions	°C, °F, Data hold, Memory ( Max., Min. ), Relative measurement,
Resolution	0.1 degree.
Circuit	Exclusive microcomputer circuit, the software build in linearity correction function instead of the traditional hardware circuit.
Probe Input Socket	<i>Thermocouple probe :</i> Standard 2 pin thermocouple socket. T1, T2, T3, T4.
Sampling Time	Approx. 1 second.
Hold Function	To freeze the display reading value.
Memory Recall	Memorize the Maximum, Minimum reading.
Over Indication	Show " - - - - ".
Data Output	RS232 PC serial interface.
Power Supply	Alkaline or heavy duty type, DC 9V battery, 006P, MN1604 ( PP3 ) or equivalent.
Power Consumption	Approx. DC 11 mA.
Operating Temperature	0 to 50 °C (32 to 122 °F).
Operating Humidity	Less than 80% RH.
Size	210 x 68 x 30 mm ( 8.3 x 2.6 x 1.2 inch ).
Weight	220 g/0.48 LB.
Standard Accessory	Operational manual..... 1 PC.
Optional & accessories	Thermocouple couple ( Type K ) probe : Model : TP-01, TP-02A, TP-03, TP-04.
Temp. Probe	RS232 cable, Model : UPCB-02. USB cable, Model : USB-01 Application software, windows version. Model : SW-U801-WIN

## ELECTRICAL SPECIFICATIONS

Sensor Type	Resolution	Range	Accuracy	Remark : a. Accuracy Is specified for the meter only. b. Accuracy is tested under the ambient temperature within $23 \pm 5^{\circ}\text{C}$ . c. Linearity Correction : Memorize the thermocouple's curve into the intelligent CPU circuit,
Type K	0.1 °C	-100.0 to 1300.0 °C	$\pm ( 0.5 \% + 1^{\circ}\text{C} )$	
	0.1 °F	-148.0 to 2372.0 °F	$\pm ( 0.5 \% + 2^{\circ}\text{F} )$	
Type J	0.1 °C	-100.0 to 1150.0 °C	$\pm ( 0.5 \% + 1^{\circ}\text{C} )$	
	0.1 °F	-148.0 to 2102.0 °F	$\pm ( 0.5 \% + 2^{\circ}\text{F} )$	

\* Appearance and specifications listed in this brochure are subject to change without notice.

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