

# *Type K/J/T/E/R* **THERMOMETER**

**Model : TM-9126**

**ISO-9001, CE, IEC1010**



## **FEATURES**

- \* Type J/K/R/E/T thermocouple thermometer.
- \* Temp. probe accept 5 different types : type K, type J, type R, type T, type E.
- \* Microcomputer circuit with excellent performance.
- \* Wide temperature measuring range.
- \* °C & °F select button.
- \* 0.1 degree resolution for type K/J/T/E.
- \* Data hold.
- \* Memory function to record the maximum & minimum reading.
- \* REL button for relative measurement.
- \* Sensor select button on the front panel, easy to change different type probe.
- \* RS 232 data output.
- \* Optional data acquisition software for data record.
- \* Auto power off saves battery life.
- \* Heavy duty & compact housing.



**LUTRON ELECTRONIC**

***The Art of Measurement***

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# THERMOMETER

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## FEATURES

* Type J/K/R/E/T thermocouple thermometer.
* Thermocouple probe accept 5 different types : type K, type J, type R, type T, type E.
* Microcomputer circuit with excellent performance.
* Wide temperature measuring range.
* Build in °C & °F select button on the front panel.
* 0.1 degree resolution for type K/J/T/E.
* Data hold function for storing the desired value .
* Memory function to record the maximum & minimum reading.
* Build in a REL button, useful for relative measurement.
* Sensor select button on the front panel, easy to change different type probe.
* RS 232 data output, easy to connect with computer.
* 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.

## 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 @ Thermocouple type T @ Thermocouple type E @ Thermocouple type R
Functions	°C, °F, Data hold, Memory ( Max., Min. ), Relative measurement,
Resolution	0.1 degree or 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.
Sampling Time	Approx. 1 second.
Hold Function	To freeze the display reading value.
Memory Recall	Memorize the Maximum, Minimum reading.
Offset Adjustment	Available for thermocouple thermometer, adjustment by pushing button on front panel.

Over Indication	Show " - - - - ".
Data Output	RS232 PC serial interface.
Power Supply	DC 1.5 V battery ( UM4, AAA ) x 6 PCs, or equivalent.
Size	174 x 68 x 42 mm ( 6.9 x 2.7 x 1.7 inch ).
Weight	280 g/0.62 LB.
(Refer to page 13 )	* RS232 cable, UPCB-02 * USB cable, USB-01 * Data Acquisition software, * SW-801-WIN

## ELECTRICAL SPECIFICATIONS

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.2 % + 0.5 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F	± ( 0.2 % + 1 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )
Type J	0.1 °C	-50.0 to 1150.0 °C	± ( 0.2 % + 0.5 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 2102.0 °F	± ( 0.2 % + 1 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )
Type T	0.1 °C	-50.0 to 400.0 °C	± ( 0.2 % + 0.5 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 752.0 °F	± ( 0.2 % + 1 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )
Type E	0.1 °C	-50.0 to 900.0 °C	± ( 0.2 % + 0.8 °C )
		-50.1 to -100.0 °C	± ( 0.2 % + 1 °C )
	0.1 °F	-58.0 to 1652.0 °F	± ( 0.2 % + 1.5 °F )
		-58.1 to -148.0 °F	± ( 0.2 % + 1.8 °F )
Type R	1 °C	0 to 600 °C	± ( 1 % + 5 °C )
		601 to 1700 °C	± ( 1.5 % + 5 °C )
	1 °F	32 to 1112 °F	± ( 1 % + 10 °F )
		1113 to 3092 °F	± ( 1.5 % + 10 °F )

Remark :

a. Accuracy value 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,