

# TYPE K/J/T/E/R/ THERMOMETER

Model: TM-926, TM-946

ISO-9001, CE, IEC 1010



TM-946  
(4 channels)



TM-926  
(one channel)



## Features:

- \* Thermocouple thermometer (Type K/J/T/E/R).
- \* 4 input socket for multi points monitoring (TM-946 only).
- \* Microcomputer circuit grants excellent performance.
- \* Wide measuring range from -100 °C to 1700 °C.
- \* Build in °C/°F selection button on the front panel.
- \* 0.1° resolution for Type K/J/T/E.
- \* Sensor selection button on the front panel, easy to change different types of probes.
- \* Auto power off saves battery life.
- \* Memorize Max. / Min. reading with recall.
- \* Data Hold, RS-232 computer interface.
- \* °C/°F selection.

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LUTRON ELECTRONIC

*The Art of Measurement*

**Type K/J/R/E/T THERMOMETER, Model : TM-926**  
**4 channels type K/J/R/E/T THERMOMETER, Model : TM-946**

**FEATURES**

* Type K/J/R/E/T thermocouple thermometer.	* 0.1 degree resolution for type K/J/T/E.
* Thermocouple probe accept 5 different types : type K, type J, type R, type T, type E.	* Build in a REL button, useful for relative measurement.
* TM-946 : Accept 4 probes input, available for 4 points temperature measurement.	* Sensor select button on the front panel, easy to change different type 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.
* Data hold function for storing the desired value.	* Built-in low battery indicator.
* Memory function to record the max. & min. reading.	* Heavy duty & compact housing case with stand.
	* Powered by 006P DC 9V battery.

**GENERAL SPECIFICATIONS**

Display	51 mm x 32 mm super large LCD display 15 mm (0.6") digit size.	Over Indication	Show " - - - - "
Sensor Type	Thermocouple probe @ Thermocouple type K @ Thermocouple type J @ Thermocouple type T @ Thermocouple type E @ Thermocouple type R	Offset	Available for thermocouple thermometer, adj. by pushing button on front panel.
		Adjustment	RS232 PC serial interface.
Temperature measurement channel no.	TM-926 One channel TM-946 4 channels	Data Output	Alkaline or heavy duty type, DC 9V battery, 006P, MN1604 (PP3) or equivalent.
		Power Supply	Approx. DC 11 mA
Functions	°C, °F, Data hold, Memory (Max., Min.), Relative measurement,	Power Consumption	0 to 50 °C (32 to 122 °F).
		Operating Temperature	Less than 80% RH.
Resolution	0.1 degree or 1 degree.	Humidity	
Circuit	Exclusive microcomputer circuit, the software build in linearity correction function instead of the traditional hardware circuit.	Size	TM-926 195x68x30 mm (7.6x2.6x1.2 inch). TM-946 210x68x30 mm (8.2x2.6x1.2 inch).
		Weight	TM-926 220 g/0.48 LB. TM-946 266 g/0.59 LB.
Probe Input Socket	Standard 2 pin thermocouple socket.	Standard Accessory	Operational manual.....1 PC.
Sampling Time	Approx. 1 second.	Optional accessories and Probe	Thermocouple couple (Type K) probe : Model : TP-01, TP-02A, TP-03, TP-04, RS232 cable Model : UPCB-02
Hold Function	To freeze the display reading value.	Application software, windows version.	Model : SW-U801-WIN
Memory Recall	Memorize the Maximum, Minimum reading.		

**ELECTRICAL SPECIFICATIONS ( 23 ± 5 °C )**

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

Remark :  
\* The accuracy is specified for the meter only.

**OPTIONAL TYPE K THERMOCOUPLE PROBES**

TP-01	-40 °C to 250 °C (300°C short-term). Ultra fast response naked-bead probe.	TP-03	-50 °C to 1200 °C ( -50 °F to 2200 °F). High temp., Penetration & immersion.
TP-02A	-50 °C to 900 °C ( -50 °F to 1650 °F). Penetration & Immersion applications.	TP-04	-50 °C to 400 °C ( -50 °F to 752 °F). Precision surface temp. measurement usage.

**OPTIONAL ACCESSORIES**

RS232 cable	RS232 cable for connecting between the meter & the computer.	Carrying Case CA-03	Vinyl soft carrying case.
UPCB-02	Software apply as the performance of data logging system & data recorder...	Carrying Case CA-06	Hard carrying case.