

*0.01 degree, Pt 100, type K/J/R/E/T, RS232*  
**PRECISION THERMOMETER**

**Model : TM-917**

*ISO-9001, CE, IEC1010*



PT-100 ohm

Temp. probe, optional



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

# PRECISION 0.01 degree THERMOMETER

## Model : TM-917

FEATURES	
* Professional thermometer with high accuracy & 0.01 resolution.	* Build in 0.01& 0.1select switch on the front panel.
* Accept multi type temp. probe input : platinum PT 100 ohm, thermocouple type K/J/T/E/R.	* Super large LCD with unit display, easy readout.
* With 0.01 high resolution both for Platinum & Thermocouple probe input.	* Data hold function for stored the desired value on display.
* PT 100 probe input cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751.	* Sensor select button on the front panel, easy to change different type probe.
* Cooperate with 4 wires Pt-100 ohm probe, high precision.	* Memory function to record the maximum & minimum reading with recall.
* Wide range display from -100 to 1370 °C ( type k ).	* Build the REL. button, useful for relative measurement.
* Build in °C & °F select button on the front panel.	* Built-in low battery indicator.
	* Optional heavy duty & compact housing case, designed for easy carry out.

GENERAL SPECIFICATIONS			
Display	62 mm x 34 mm supper large LCD display, 13 mm ( 0.5" ) digit size.	Sampling Time	Approx. 0.4 second.
Probe type	5 types : 1. Platinum PT 100 ohm ( 0.00385 alpha coefficient, meet DIN IEC 751 ) 2. Thermocouple type K. 3. Thermocouple type J. 4. Thermocouple type T. 5. Thermocouple type E. 6. Thermocouple type R.	Hold Function	To freeze the display reading value.
		Memory Recall	Memorize the Maximum, Minimum reading with recall.
		Over Indication	Show " - - - - ".
		Data Output	RS232 PC serial interface.
		Power Supply	Heavy duty or Alkaline type, DC 9V battery, 006P, MN1604 ( PP3 ) or equivalent.
		Power Consumption	Approx. DC 15 mA.
Functions	°C, °F, 0.010.1 Data hold, relative measurement.	Operating Temperature	0 to 50 °C (32 to 122 °F).
Resolution	0.01°C/0.1°C, 0.01°F/0.1°F.	Operating Humidity	Less than 80% RH.
Circuit	Use the software to make linearity correction instead the traditional hardware circuit.	Meter Size	HWD 180x72x32 mm ( 7.1x2.8x1.3 inch
		Meter Weight	285 g/0.62 LB.
Probe input socket	Pt 100 ohm probe : DIN 4 pin socket. Thermocouple couple probe : Standard 2 pin type K socket.	Standard Accessory	Operational manual..... 1 PC.
		Optional Accessories	Carrying case, Pt-100 probe, Type K Thermocouple probe.

MEASURING RESOLUTION / RESOLUTION					
Type	Resolution	Range	Type	Resolution	Range
Platinum PT 100 ohm	0.01 °C	-199.99 to 199.99 °C	Thermocouple type T	0.01 °C	-100.00 to 100.00 °C
	0.1 °C	200.0 to 850.0 °C		0.1 °C	100.0 to 400.0 °C
	0.02 °F	-199.99 to 392.00 °F		0.02 °F	-148.00 to 212.00 °F
	0.2 °F	392.0 to 1562.0 °F		0.2 °F	212.0 to 752.0 °F
Thermocouple type K	0.01 °C	-100.00 to 100.00 °C	Thermocouple type E	0.01 °C	-80.00 to 90.00 °C
	0.1 °C	100.0 to 1370.0 °C		0.1 °C	90.0 to 779.9 °C
	0.02 °F	-148.00 to 212.00 °F		0.02 °F	-112.00 to 194.00 °F
	0.2 °F	212.0 to 2498.0 °F		0.2 °F	194.0 to 1435.8 °F
Thermocouple type J	0.01 °C	-90.00 to 100.00 °C	Thermocouple type R	0.1 °C	0 to 600.0 °C
	0.1 °C	100.0 to 900.0 °C		1 °C	600 to 1770 °C
	0.02 °F	-130.00 to 212.00 °F		0.2 °F	32.0 to 112.0 °F
	0.2 °F	212.0 to 1652.0 °F		1 °F	112 to 3218 °F

OPTIONAL TEMPERATURE PROBE & OTHER ACCESSORIES	
Carrying Case	Model : CA-03, Vinyl soft carrying case.
Carrying Case	Model : CA-06, Hard carrying case
PT-100 ohm Probe TP-100	* -50 °C to 400 °C (-58 °F to 752 °F), DIN plug, 4 pins/4 wires, Class A, Cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751, Accuracy : (0.15 + (0.002 x T))C.
TP-100A	* Dimension Sensing head - 152 mm tube, Probe length - 245 mm.
Thermocouple Probe (Type K) TP-01	* Measure Rage: -40 °C to 250 °C, -40 °F to 482 °F. * Ultra fast response naked-bead thermocouple, general purpose application.
Thermocouple Probe (Type K), TP-02A	* Measure Range: -50 °C to 900 °C, -50 °F to 1650 °F. * Dimension: 10 cm tube, 3.2 mm Dia.
Thermocouple Probe (Type K), TP-03	* Measure Range: -50 °C to 1200 °C, -50 °F to 2200 °F. * Dimension: 10 cm tube, 8 mm Dia.
Surface Probe (Type K), TP-04	* Measure Range: -50 °C to 400 °C, -50 °F to 752 °F. * Size : Temp. sensing head - 15 mm Dia. Probe length - 120 mm.
RS232 cable	Model : UPCB-01, RS232 cable for connecting between the meter & computer COM port
USB cable	Model : USB-01, USB cable for connecting between the meter & the computer USB port.
Software	Model : SW-U801-WIN, Windows version. * Software apply as the performance of data logging system & data recorder...

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

0609-TM917