

## '0.01 Degree, Pt 100 ohm, Type K/J/R/E/T High Precision, RS232 Precision Thermometer

### The Art of Measurement

**Model : TM-917**



### Feature

- ✓ Professional thermometer with high accuracy & 0.01 resolution.
- ✓ Build in 0.01& 0.1select switch on the front panel
- ✓ RS 232 computer serial interface
- ✓ Accept multi type temp. probe input : platinum PT100 ohm, thermocouple type K/J/T/E/R
- ✓ PT 100 probe input cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751
- ✓ Cooperate with 4 wires Pt-100 ohm probe, high precision
- ✓ Super large LCD with unit display, easy readout
- ✓ Data hold function to store the desired value
- ✓ With 0.01 high resolution both for Platinum & Thermocouple probe input.
- ✓ Memory function to record the Maximum & Minimum reading with all
- ✓ Wide range display from -199.99 to 850.
- ✓ Wide range display from -100 to 1370 °C (Type K )
- ✓ Built the REL button, useful for relative measurement.
- ✓ Built-in low battery indicator.
- ✓ Build in & select button on the front panel
- ✓ Optional heavy duty & compact housing cases are available

### 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	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
		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, 0.01/0.1 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	180x72x32 mm (7.1x2.8x1.3 inch ).
		Meter Weight	285 g/0.62 LB.
Probe input socket	PT100 - DIN 4 pin socket. Thermocouple: Standard 2 pin type K socket	Standard Accessory	Operational manual.....1 PC.
		Optional Accessories	Carrying case, Pt-100 probe, RS232 cable, USB cable Application software.

### Measuring Resolution / Resolution

Type	Resolution	Range	Type	Resolution	Range
Platinum PT100 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°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°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 600.00°C
	0.1°C	100.0 to 900°C		1°C	600.0 to 1770°C
	0.02°F	-130.00 to 212.00°F		0.2°F	32.0 to 112.00°F
	0.2°F	212.0 to 1652.0°F		1°F	112.0 to 3218°F