

# Thermometer 3 in 1

Part No. 01TM2000

## FEATURES

- 3 in 1, Infrared thermometer + Pt 100 ohm + Thermocouple (Type K/J/R/E/T), intelligent
- The best professional thermometer in the world.
- Microcomputer circuit with high performance.
- Wide measuring range from -200°C to 1700°C.
- Patent pending.
- Built in °C & °F select button on the front panel,
- 0.1 degree resolution for Pt 100 ohm & K/J/T/E.
- Data hold function for stored the desired value on display.
- Memory function to record the maximum & minimum reading with recall,
- Built the REL. button, useful for relative measurement.
- LCD display with back light
- Sensor select button on the front panel, easy to change different type probe.
- Infrared thermometer, non-contact temperature measurement, -20°C to 400°C (-4°F to 752°F), useful for none contact temperature measurement.
- Emissivity adjustment for IR thermometer.
- Laser guide for IR thermometer (TM - 2000 only).
- PT 100 probe input cooperate with all 0.00385 alpha coefficient,, meet DIN IEC 751 .
- Cooperate with 4 wires Pt-100 ohm probe, high precision.
- Thermocouple probe accept 5 different types: type K, type J, type R, type T, type E.
- R.S 232 data output easy cooperate with computer .
- Optional data acquisition software for data record.
- Auto power shut off saves battery life.
- Built-in low battery indicator.
- Heavy duty & compact housing case with stand.



## GENERAL SPECIFICATIONS

<b>Display:</b>	51 mm x 32 mm super large LCD display, 15 mm (0.6" ) digit size.	<b>Sampling Time:</b>	Approx. 1 second.
<b>Probe Type:</b>	<u>1. Infrared Thermometer (NON CONTACT TEMPERATURE MEASUREMENT)</u> <u>2. Platinum PT 100 ohm (0.00385 alpha coefficient, meet DIN IEC 751)</u> <u>3. Thermocouple probe</u> @ Thermocouple type K @ Thermocouple type J @ Thermocouple type R @ Thermocouple type T @ Thermocouple type E	<b>Hold Function:</b>	To freeze the display reading value.
<b>Functions:</b>	°C, °F, Data hold, Memory (max., min.), Relative measurement. LCD back light. Emissivity adjustment (IR thermometer)	<b>Memory Recall:</b>	Memorize the Maximum, Minimum reading with recall.
<b>Resolution:</b>	0.1 degree or 1 degree. Exclusive microcomputer circuit, the software built in linearity correction instead the traditional hardware circuit.	<b>Over Indication:</b>	Show " - - - - ".
<b>Laser guide:</b>	Red laser light, less than 1 mW.	<b>Data Output:</b>	RS232 PC serial interfare.
<b>Probe input</b>	<u>Pt 100 ohm probe:</u>	<b>Power Supply:</b>	Heavy duty or Alkaline type, DC 9V battery, 006P, MN1604 (PP3) or equivalent.
<b>Socket:</b>	<u>DIN 4 pin socket</u> <u>Thermocouple couple probe:</u> Standard 2 pin type K socket	<b>Power Consumption:</b>	Approx. DC 9.5 mA (w/o laser light on).
		<b>Operating Temperature:</b>	0 to 50°C (32 to 122 °F).
		<b>Operating Humidity:</b>	Less than 80% RH.
		<b>Size:</b>	HWD 200 x 68 x 30mm (7.9 x 2.7 x 1.2 inch).
		<b>Weight:</b>	220 g. / 0.48 LB.
		<b>Standard Accessory</b>	Operational manual ..... 1 PC.

# Thermometer 3 in 1 Part No. 01TM2000 (Con't)

MEASURING / RESOLUTION / ACCURACY (23 ± 5 °C)							
Type	Reso- lution	Range	Accuracy	Type	Reso- lution	Range	Accuracy
<b>Infrared Thermometer</b>	1°C	-20°C to 400°C	±3% of reading or ±3°C (5°F)	<b>Thermocouple Type T</b>	0.1°C	-100.0 to 400.0°C	± (0.2% + 0.5°C)
	1°F	-4°F to 752°F			0.1°F	-148.0 to 752.0°F	± (0.2% + 1°F)
<b>Platinum PT 100 ohm</b>	0.1°C	-200.0 to 850.0°C	± (0.2% + 0.5°C)	<b>Thermocouple Type E</b>	0.1°C	-100.0 to 900.0°C	± (0.2% + 0.8°C)
	0.1°F	-328.0 to 1562.0°F	± (0.2% + 1 °F)		0.1°F	-148.0 to 1652.0°F	± (0.2% + 12°F)
<b>Thermocouple Type K</b>	0.1°C	-100.0 to 1300.0°C	± (0.2% + 0.5°C)	<b>Thermocouple Type R</b>	1°C	0 to 600°C	± (1% + 5°C)
	0.1°F	-148.0 to 2372.0°F	± (0.2% + 1 °F)°			601 to 1700 °C	± (1.5% + 5°C)
<b>Thermocouple Type J</b>	0.1°C	-100.0 to 1150.0°C	± (0.2% + 0.5°C)		1°F	32 to 1112°F	± (1% + 10°F)
	0.1°F	-148.0 to 2102.0°F	± (0.2% + 1 °F)			1113 to 3092 °F	± (1.5% + 10°F)

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