

*Mini pocket type, Emissivity adj., Laser target light*

# INFRARED THERMOMETER

**Model : TM-958**

**ISO-9001, CE, IEC1010**



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

*Laser Target Light*

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Model : TM-958

## 1. FEATURES

- \* Infrared thermometer, non-contact temperature measurement, -30 to 300 °C ( -22 to 572 °F ), precision for none contact temperature measurement.
- \* Microcomputer circuit with high performance.
- \* Wide temperature measuring range.
- \* Measurement via one operation button, easy to operate.
- \* Build in °C & °F select switch.
- \* Automatic data hold.
- \* 0.95 default emissivity value.
- \* Emissivity value can adjust from 0.2 to 1.00.
- \* Back light LCD display.
- \* LCD display both temperature and the emissivity value.
- \* Laser target guide for IR thermometer.
- \* 0.5 degree display resolution.
- \* Auto power shut off saves battery life.
- \* Built-in low battery indicator.
- \* Compact housing case with stand.
- \* Operates from 006P DC 9V battery.

## 2. SPECIFICATIONS

### 2-1 General Specifications

Display	LCD, 29 mm x 33 mm. * Main display to show temp. value. * Lower display to show emissivity value. * Back Light.
Functions	°C, °F, Auto data hold, Auto power off, Auto LCD back light, Emissivity adjustment.
Measurement Range	-30 to 300 °C ( -22 to 572 °F ),
Resolution	0.5 °C/0.5 °F.
Circuit	Exclusive microcomputer circuit.
Emissivity Adjustment	Adjustment range : 0.20 to 1.00. * 0.95 default emissivity value.
Target Guide	* Less than 1 mW. * Class 2 laser diode. Red. Wave length is 645 nm approximately.
Sampling Time	Approx. 0.6 second.
Hold and Auto Power Off function	After release the operation switch, display will hold the last measuring value within 5 seconds continuously.
Over Indication	$\geq 305$ °C, display will show 350 °C and flashed. $\leq -30$ °C, display will show -30 °C and flashed.
Power Supply	DC 9V battery, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or Alkaline.
Power Consumption	Approx. DC 14 mA, with laser light out. Approx. DC 25 mA, w/o laser light out.
Operating Temp. and Humidity	0 to 50 °C (32 to 122 °F). Less than 80% RH.
Weight	140 g/0.3 LB ( without battery ).
Dimension	160 x 92 x 45 mm. ( 6.3 x 3.6 x 1.8 inch ).
Standard Accessory	Operational manual..... 1 PC.

## ***2-2 Electrical Specifications***

Measurement Range	-30 to 300 °C ( -22 to 572 °F ),
Resolution	0.5 °C/0.5 °F.
Accuracy	$\pm 3\%$ of reading or $\pm 3\text{ °C}$ ( $5\text{ °F}$ ), which ever is greater. <i>* Meter operating temp. within <math>23\pm 5\text{ °C}</math> and the emissivity value of measurement target set to 0.95.</i> <i>* Spec. tested under the 20 cm dia. black body, the measuring distance from the probe sensing Head is 30 cm.</i>
Temp. Sensor	Thermocouple pie.
Emissivity Setting	* By push button. Setting range : 0.20 to 1.00. * The default emissivity value is 0.95, which will cover 90% of a typical application.
Measurement Wave length Region	6 to 12 micro meter.
Distance Factor	D/S : Approx. 7:1. D - Distance, S - Spot.