# O.1 degree + type K, red laser guideINFRARED THERMOMETERModel : TM-909ALISO-9001, CE, IEC1010





### FEATURES

- \* 2 in 1, Infrared thermometer + Type K thermometer.
- \* Infrared thermometer, non-contact temperature measurement, -20 to 400  $^{\circ}C$  (-4 to 752  $^{\circ}F$ ).
- \* Type K thermometer , range : -100.0 to 1300.0  $^{\circ}$ C -148.0 to 2372.0  $^{\circ}$ F.
- \* 0.1 °C display resolution both for the measurement of IR thermometer and Type K thermometer.
- \* Microcomputer circuit with high performance.
- \* Auto power shut off saves battery life.
- \* Wide temperature measuring range.
- \* Build in  $^\circ\!C$  &  $^\circ\!F$  select button.
- \* Data hold.
- \* Memory function to record the maximum & minimum reading.
- \* Build the REL button, useful for relative measurement.
- \* Emissivity adjustment.
- \* Red laser target light guide, < 1 mW.
- \* Heavy duty & compact housing case.



The Art of Measurement

#### 0.1 degree + Type K THERMOMETER, Red laser target , Emissivity adjustment

## **INFRARED THERMOMETER**

Model : TM-909AL

FEATURES				
* 2 in 1, Infrared thermometer + Type K thermometer.	* Build the REL button, useful for relative measurement.			
* Infrared thermometer, non-contact temperature	<ul> <li>* Sensor select button on the front panel, easy to change</li> </ul>			
measurement, -20 $^\circ\!\mathrm{C}$ to 400 $^\circ\!\mathrm{C}$ ( -4 $^\circ\!\mathrm{F}$ to 752 $^\circ\!\mathrm{F}$ ).	different type probe.			
* Microcomputer circuit with high performance. * Emissivity adjustment for IR thermometer.				
* Wide temperature measuring range.	* Red laser target light guide for IR thermometer.			
* 0.1 $^{\circ}$ C display resolution both for the measurement	* RS 232 data output, easy cooperate with computer.			
of IR thermometer and Type K thermometer.	* Optional data acquisition software for data record.			
* Build in $^{\circ}C$ & $^{\circ}F$ select button on the front panel.	* Auto power shut off saves battery life.			
* Data hold function.	* Built-in low battery indicator.			
* Memory function to record the maximum & minimum	* Heavy duty & compact housing case with stand.			
reading with recall.	* Operates from 006P DC 9V battery.			

#### **GENERAL SPECIFICATIONS**

(PP3)	
light on ).	
t light on ).	
calculated under	
eter.	
Operating Less than 80% RH.	
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	1	ELECTRICAL SPEC	IFICATIONS (23 $\pm$ 5 °C)	
A. Infrared The	ermometer		· · · · ·	
Resolution/	0.1°C  - 20 °C to 400 °C			
ranges	0.1 °F -4 °F to 752 °F			
Accuracy	$\pm$ 3 % of reading or $\pm$ 3°C (5 °F), which ever is greater.			
-	1. Accuracy test under the measurement range within - 10 $^\circ\!\!C$ to 350 $^\circ\!\!C$ .			
	2. Meter opera	ating temp. within 23 5	${}^{\circ}\!\!{}^{\circ}$ and the emissivity value of measurement target set to 0.95.	
	3. Spec. tested under the 20 cm dia. black body, the measuring distance from the probe sensing Head			
	is 30 cm.			
Temp. Sensor	Thermocouple pie.			
Emissivity				
	The default emissivity value is 0.95, which will cover 90% of a typical application.			
Measurement	6 to 12 micro meter.			
Wave length				
Region				
Distance Factor	D/S : Approx. 7:1. * D - Distance, S - Spot.			
B. Type K Theri	mometer			
Sensor Type	Resolution	Range	Accuracy	
Туре К	0.1 °C	-100.0 to 1300.0 °C	± (1% + 1°C)	
	0.1 °F	-148.0 to 2372.0 °F	± (1% + 2°F)	
Remark :				
4	1 1 10 10			

a. Accuracy value is specified for the meter only.

b. Accuracy test is based on the environment temperature of  $23 \pm 5^{\circ}C$ .

c. Linearity Correction : Memorize the thermocouple's curve into the CPU circuit.

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