0.1 degree + type K, red laser guide INFRARED THERMOMETER

Model: TM-909AL *ISO-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 $^{\circ}\text{C}\,$ -148.0 to 2372.0 $^{\circ}\text{F}\,.$
- * 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 °C & °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

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	* Sensor select button on the front panel, easy to change			
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 °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 °C & °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					
Display	Dual display with annunciator :	Power Supply	Alkaline or heavy duty type,		
	* Main display: 10 mm (0.4") LCD, 5 digit.		DC 9V battery, 006P, MN1604 (PP3)		
	* Small display : To show the emissivity value.		or equivalent.		
Sensor	1. Infrared thermometer	Power	Approx. DC 12 mA (w/o tagret light on).		
Туре	(Non contact temperature measurement)	Consumption	Approx. DC 23 mA (with target light on).		
	2. Type K thermometer		* Above consumption value is calculated under		
Functions	°C, °F, Data hold, Memory (Max., Min.),		the function of IR thermometer.		
	Relative measurement,	Operating	0 to 50 °C (32 to 122 °F).		
	Emissivity adjustment (IR thermometer).	Temperature			
Resolution	0.1 degree.	Operating	Less than 80% RH.		
Circuit	Exclusive microcomputer circuit, the	Humidity			
	software build in linearity correction	Weight	260 g/0.57 LB.		
	instead the traditional hardware circuit.	Dimension	195 x 120 x 57 mm.		
Emissivity	Range: 0.20 to 1.00.		(7.7 x 4.7 x 2.2 inch).		
Adjustment	Adjustment by pushing button on front panel.	Standard	Operational manual 1 PC.		
Target Guide	Red color, laser power less than 1 mW.	Accessory			
Probe Input	Standard 2 pin thermocouple socket.	Optional	Hard carrying case		
Socket		& accessories	Model : CA-06		
	Approx. 1 second.		USB cable		
Hold Function	To freeze the display reading value.		Model: USB-01		
Memory Recall	Memorize the Maximum, Minimum		RS232 cable		
	reading with recall.		Model: UPCB-02		
Offset	Available for thermocouple thermometer offset		Type K thermocouple probe.		
Adjustment	adjustment by pushing button on front panel.	TP-01, TP-02A. TP-03, TP-04			
	Show " ".		Data acquisition software		
Data Output	RS232 PC serial interface.		Model : SW-U801-WIN		

		ELECTRICAL SPEC	IFICATIONS (23 ± 5 °C)		
A. Infrared The					
Resolution/	0.1°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 °C to 350 °C.				
·					
	2. Meter operating temp. within 23 5 $^{\circ}$ C 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	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	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		
Type K	0.1 ℃	-100.0 to 1300.0 ℃	± (1% + 1°C)		
	0.1 °F	-148.0 to 2372.0 °F	± (1% + 2°F)		
Pomark .					

Remark :

- a. Accuracy value is specified for the meter only.
- b. Accuracy test is based on the environment temperature of 23 \pm 5°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.