0.1 degree + type K, red laser guide INFRARED THERMOMETER

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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 °C (-4 to 752 °F).
- * Type K thermometer, range : -100.0 to 1300.0 °C -148.0 to 2372.0 °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

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	* Sensor select button on the front panel, easy to change		
measurement, -20 $^\circ C$ to 400 $^\circ C$ (-4 $^\circ F$ to 752 $^\circ F$).	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

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	$^{\circ}$ C, $^{\circ}$ 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			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 \pm 5 $^{\circ}$ C)		
A. Infrared The	ermometer		`		
Resolution/	0.1℃ - 20 ℃ to 400 ℃				
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 \mathcal{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 Ther	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 :					
	lue is specified for				
		environment temperature			
c. Linearity Co	rrection : Memoriz	e the thermocouple's cu	rve into the CPU circuit.		

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