

Light, Humidity, Air velocity Air flow, Type K temp. 9 in 1

ENVIRONMENT METER

Model : EM-1900

ISO-9001, CE, IEC1010

www.yalab.com.tw

02-2389-0101



Air velocity/Temp.

0.4 to 20.0 m/s

0 to 50 °C

Air flow

0 to 54,000 CMM

Humidity/Temp.

10 to 95 %RH / 0 to 50 °C

Dew point

-25.3 °C to 48.9 °C

Wet bulb

-21.6 °C to 50.0 °C

Light meter

0 to 20,000 Lux

Type k Temp.

-50.0 to 1300.0 °C (optional)



Lutron

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The Art of Measurement

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FEATURE

* 9 in 1 professional environment instruments:

1. Air velocity/Temp., 2. Humidity/Temp., 3. Light meter 4. Air flow, 5. Dew point, 6. Wet bulb, 7. Wind chill, 8. Heat index, 9. Type K Temp.(optional probe)

* Tiny bone shape with light weight and small size case design are suitable for handling with one hand.

* Wristlet design provides extra protection to the instrument especially for user one hand operation.

* Low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.

* High precision humidity sensor with fast response time.

* Built in baro sensor for the atmosphere value and altitude measurement precisely.

* Built- in microprocessor circuit assures excellent performance and accuracy.

* Concise and compact buttons arrangement, easy operation.

* Memorize the maximum and minimum value with recall.

* °C/°F detection by pressing button on the front panel.

* Hold function to freeze the current reading value.

GENERAL SPECIFICATION

Display	8 mm LCD display
Measurement	1. Air velocity/Temp. 2. Humidity/Temp. 3. Light meter 4. Air flow 5. Dew point 6. Wet bulb 7. Wind chill 8. Heat index 9. Type k Temp.(optional)
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50 °C (32 to 122 °F)
Over Input Display	Indication of " "
Power Supply	UM4-AAA X 3 (DC 4.5 V battery)
Power Consumption	Approx. DC 5 mA
Weight	160g (battery included)
Dimension	HWD 120 x 45 x 20 mm (4.7 x 1.8 x 1.2 inch).
Standard Accessory	Instruction Manual
Optional Accessories	Type K Temp. probe : TP-01 , TP-02A ,TP-03 , TP-04

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Anemometer

Air velocity

Unit	Range	Resolution	Accuracy
ft/min	80 to 3937 ft/min	1 ft/min	≤ 20 m/s : ±3% F.S. Max. : 25 m/s
m/s	0.4 to 20.0 m/s	0.1 m/s	
km/h	1.4 to 72.0 km/h	0.1 km/h	

MPH	0.9 to 44.7 mile/h	0.1 MPH
knots	0.8 to 38.8 knots	0.1 knots
Temp.	0 to 50 °C	0.1 °C
	32 to 122 °F	0.1 °F
<i>Remark :</i> <i>ft/min : feet per minute MPH : miles per hour</i> <i>m/s : meters per second knots : nautical miles per hour km/h : kilometers per hour</i>		

Temperature

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	±0.8 °C/1.5 °F

Air flow

Measurement	Range	Resolution
CMM (m ³ /min.)	0 to 54,000 CMM	0.001 to 1 CMM
CFM (ft ³ /min.)	0 to 1,907,000 CFM	0.001 to 100 CFM

Measurement	Area
CMM (m ³ /min.)	0.001 to 30.000 m ²
CFM (ft ³ /min.)	0.01 to 322.93 ft ²

Humidity/Temperature

Unit	Range	Resolution	Accuracy
% RH	10 to 95 %RH	0.1 %RH	< 70% RH :±4 %RH ≥70% RH :±(4 %rdg +1.2 %RH)
Temp.	0 to 50 °C	0.1 °C	±1.2 °C
	32 to 122 °F	0.1 °F	±2.5 °F

Dew Point Temp. (Humidity)

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.1 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.1 °F.

Wet bulb Temp. (Humidity)

°C	Range	-21.6 °C to 50.0 °C
	Resolution	0.1 °C
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.1 °F.

Light meter

Measuring Range	LUX Ft-cd	0 to 20,000 LUX. 0 to 1,860 Ft-cd
Resolution	LUX Ft-cd	1 LUX 0.1 Ft-cd
Accuracy	± (5% rdg ± 8 dgt)	
Note: Ft-cd : Feet candle		

Type K/J Thermometer

<i>Sensor Type</i>	<i>Resolution</i>	<i>Range Accuracy</i>	
Type K	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1.5 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Type J	0.1 °C	-50.0 to 1200.0 °C	± (0.4 % + 0.8 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1.5 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

*Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only

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

EM-1900+200515

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