Sound, Humidity, Light meter, Dew point

Wet bulb, Heat index, Type K temp.7 in 1

ENVIRONMENT METER

Model: EM-1910 *ISO-9001, CE, IEC1010*







The Art of Measurement

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ENVIRONMENT METER

Model: EM-1910

FEATURES

*	7 in 1 professional environment instruments:					
	1. Sound level meter., 2. Humidity/Temp., 3. Light meter					
	4. Dew point, 5. Wet bulb,					
	6. Heat index, 7. 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.					
*	High precision humidity sensor with fast response time.					
*	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 Specifications

Display	14 mm LCD display		
Measurement	1. Sound level meter.		
	2. Humidity/Temp.		
	3. Dew point		
	4. Wet bulb		
	5. Heat index		
	6. Light meter		
	7. Type k Temp.(optional)		
Operating	Max. 80% RH.		
Humidity			
Operating	0 to 50 °C (32 to 122 °F)		
Temperature			
Over Input	Indication of " "		
Display			
Power Supply	UM4-AAA X 3 (DC 4.5 V battery)		
Power	Approx. DC 18 mA		
Consumption			
Weight	146 g (meter only)		
Dimension	HWD 179 x 57 x 24 mm (7.0 x 2.2 x 0.94 inch).		
Standard	Instruction Manual		
Accessory			
Optional	Type K Temp. probe: TP-01, TP-02A, TP-03, TP-04		
Accessories			

Electrical Specification (23 $\pm 5~\%$)

Sound level meter.

Measurement	35 - 130 dB.				
Range					
Resolution	0.1 dB.				
Function	Data hold				
	Reco	d (Ma	x., Min	.).	
Accuracy	Chara	cterist	ics of ".	A" frequency weighting networ	rk
(23 ±5 °C)	meet	IEC 61	672-20	13 class 2 Under 94 dB input	
	signal	, the a	accurac	y are :	
		31.5	Hz	±3.0 dB	
		63	Hz	±2.0 dB	
		125	Hz	±1.5 dB	
	250 Hz ±1.5 dB				
	500 Hz ±1.5 dB				
	1 K Hz ±1.0 dB				
	2 K Hz ±2.0 dB				
		4 K	Hz	±3.0 dB	
		8 K	Hz	±5.0 dB	
	Re	mark :			
	Th	e above	e spec.	are tested under the	
environment RF Field Strength less		Field Strength less			
than 3 V/M & frequency less tha		uency less than 30			
MHz only.			ŕ		
Frequency	31.5 to 8,000 Hz.				
Microphone type				microphone.	
Microphone size	·				

Humidity/Temp.

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

Light * auto range

Unit	Range	Resolution	Accuracy	
Lux	0 to 2,200 Lux	1 Lux	±5% rdg ±8 dgt	
	1,800 to 20,000 Lux	10 Lux		
Ft-cd	0 to 204.0 Fc	0.1 Ft-cd		
	170 to 1,860 Fc	1 Ft-cd		
Remark: Ft-cd: feet candle				

Dew point Temp.

Unit	Range	Resolution	Remark
°C	-25.3 to 49.0 °C	0.1 ℃	* Calculate from the
°F	-13.5 to 120.0 °F	0.1 °F	humidity/Temp. value

Please refer to http://en.wikipedia.org/wiki/Dew_point

Wet bulb Temp.

	Unit	Range	Resolution	Remark
	°C	-5.4 to 49.0 °C	0.1 ℃	* Calculate from the
ſ	°F	22.2 to 120 °F	0.1 °F	humidity/Temp. value

Please refer to http://en.wikipedia.org/wiki/Wet-bulb_temperature

Heat index

	Unit	Range	Resolution	Accuracy
ſ	$^{\circ}$ C	0 to 100.0 °C	0.1 ℃	±2.0 ℃
	°F	32 to 212 °F	0.1 °F	±3.6 °F

Pleas refer to http://en.wikipedia.org/wiki/Heat_index

Type K/J thermometer

Sensor	Resolution	Range	Accuracy
Туре			
Type K	0.1 ℃	-50.0 to 1300.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

Effects of the heat index (shade values)

Elicets of	Effects of the neat mack (shade values)				
Celsius	Fahrenheit	Notes			
27–32 ℃	80–90 °F	Caution:			
		Fatigue is possible with prolonged exposure			
		and activity. Continuing activity could result in			
		heat cramps			
32–41 °C 90–105 °F Extreme caution :		Extreme caution:			
		Heat cramps, and heat exhaustion are possible.			
		Continuing activity could result in heat stroke			
41–54 °C	105–130 °F	Danger:			
		Heat cramps, and heat exhaustion are likely;			
		heat stroke is probable with continued activity			
over 54 °C	over 130 °F	Extreme danger: Heat stroke is imminent			

Note:

Exposure to full sunshine can increase heat index values by up to $8 \, ^\circ\!\! C \, (14 ^\circ\!\! F).$

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