

*9 in 1, Anemometer, Humidity meter, Light meter
Light Meter, Pt 1000 Temp. (optional)*

Sport/Weather meter

ENVIRONMENT METER

Model : SP-8001

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

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Anemometer, Humidity/Temp. meter,
Light meter, Pt 1000 Temp. (optional)
Sport/Weather meter

ENVIRONMENT METER

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FEATURES

- * 9 in 1 professional environment instruments:
 1. Air velocity/Temp., 2. Humidity/Temp., 3. Light
 4. CFM, CMM, 5. Dew point, 6. Wet bulb,
 7. Wind chill, 8. Heat index, 9. Pt 1000 ohm Temp.
 (optional)
- * Tiny bone shape with lightweight 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.
- * Exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic.
- * High precision humidity sensor with fast response time.
- * Optional Pt 1000 ohm Temp. probe for the precision Temp. measurement.
- * 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	8 mm LCD display	
Measurement	1. Air velocity/Temp. 2. Humidity/Temp. 3. Light 4. CFM, CMM 9. Pt 1000 ohm Temp. (optional)	5. Dew point 6. Wet bulb 7. Wind chill 8. Heat index
Operating Humidity	Max. 80% RH.	
Operating Temperature	0 to 50° C (32 to 122° F)	
Over Input Display	Indication of "- - - -"	
Power Supply	CR 2032 DC 3V 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	Instruction Manual	
Accessory		
Optional Accessories	Pt 1000 ohm Temp. probe, TP-1000	

ELECTRICAL SPECIFICATION (23 ± 5°C)

Air velocity

Unit	Range	Resolution	Accuracy
ft/min	80 to 3937 ft/min	1 ft/min	≤ 20 m/s : ± 3% F.S. > 20 m/s : ± 4% F.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	

Remark :
 ft/min : feet per minute MPH : miles per hour
 m/s : meters per second knots : nautical miles per hour
 km/h : kilometers per hour

Ar flow

Unit	Range	Resolution
CMM	0.024 to 36000	0.001/0.01/0.1/1
CFM	0.847 to 1271300	0.001/0.01/0.1/1/10 (x10)/100 (x100)

Humidity/Temp.

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

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 °C	* Calculate from the humidity/Temp. value
°F	-13.5 to 120.0 °F	0.1 °F	

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 °C	* Calculate from the humidity/Temp. value
°F	22.2 to 120 °F	0.1 °F	

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

Wind chill

Unit	Range	Resolution	Accuracy
°C	-9.4 to 44.2 °C	0.1 °C	± 2.0 °C
°F	15.0 to 112.0 °F	0.1 °F	± 3.6 °F

* Wind chill value is effect only when the Temp. value < 15 °C and Air velocity value > 1.4 m/s.
 * Please refer to http://en.wikipedia.org/wiki/Wind_chill

Heat index

Unit	Range	Resolution	Accuracy
°C	0 to 100.0 °C	0.1 °C	± 2.0 °C
°F	32 to 212 °F	0.1 °F	± 3.6 °F

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

Effects of the heat index (shade values)

Celsius	Fahrenheit	Notes
27– 32 °C	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 : 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 °C (14°F).

Pt 1000 ohm Thermometer (optional probe)

Unit	Range	Resolution	Accuracy
°C	-10.0 to 70.0 °C	0.1 °C	± 1.2 °C
°F	14.0 to 158.0 °F	0.1 °F	± 2.5 °F

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