

*11 in 1, Anemometer, Humidity meter, Barometer
UV Light , Altitude, Pt 1000 Temp. (optional)*

Sport/Weather meter

ENVIRONMENT METER

Model : SP-9202

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

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Anemometer, Humidity meter, Barometer
UV Light Meter, Altitude. Pt 1000 Temp. (optional)
Sport/Weather meter

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FEATURES

- * 11 in 1 professional environment instruments:
 1. Air velocity/Temp., 2. Humidity/Temp., 3. UV Light
 4. Barometer, 5. CFM, CMM, 6. Dew point,
 7. Wet bulb, 8. Wind chill, 9. Heat index,
 10. Altitude, 11. Pt 1000 ohm Temp.(optional)
- * 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.
- * UV sensor structure The exclusive UV photo sensor with the cosine correction filter.
- * High precision humidity sensor with fast response time.
- * Build in baro sensor for the atmosphere value and altitude measurement precisely.
- * 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. UV Light 4. Barometer 5. CFM, CMM 6. Dew point 7. Wet bulb 8. Wind chill 9. Heat index 10. Altitude 11. Pt 1000 ohm Temp.(optional)
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	Approx. DC 5 mA
Consumption	
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	$\leq 20 \text{ m/s} : \pm 3\% \text{ F.S.}$ $> 20 \text{ m/s} : \pm 4\% \text{ F.S.}$
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 : <i>ft/min : feet per minute MPH : miles per hour</i> <i>m/s : meters per second knots : nautical miles per hour</i> <i>km/h : kilometers per hour</i>			

Humidity/Temp.			
Unit	Range	Resolution	Accuracy
% RH	10 to 95 %RH	0.1 %RH	$< 70\% \text{ RH} : \pm 4\% \text{ RH}$ $\geq 70\% \text{ RH} : \pm (4\% \text{ rdg} + 1.2\% \text{ RH})$
Temp.	0 to 50 °C	0.1 °C	± 1.2 °C
	32 to 122 °F	0.1 °F	± 2.5 °F

Barometric pressure (Barometer)

Unit	Range	Resolution	Accuracy
hPa	10.0 to 999.9	0.1 hpa	± 1.5 hPa
	1000 to 1100	1 hpa	± 2 hPa
mmHg	7.5 to 825.0	0.1 mmHg	± 1.2 mmHg
inHg	0.29 to 32.48	0.01 inHg	± 0.05 inHg

UV Light * auto range * UVA light measurement

Range	Resolution	Accuracy
0 to 1999 uW/cm ²	1 uW/cm ²	± (4% FS + 2 dgt)
2 to 20.00 mW/cm ²	0.01 mW/cm ²	FS : full scale

Remark
 * Calibration is executed under the UVA light & and compare with the standard UVA light meter.
 * UV Sensor structure :
 The exclusive UV photo sensor with the cosine correction filter.
 * UV sensor spectrum Band pass 290 nm to 390 nm.

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

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)

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

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

Please 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).

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

Altitude

Unit	Range	Resolution	Accuracy
m	-2000 to 9000 m	1 m	± 15 m
ft	-6000 to 30000 ft	1 ft	± 50 ft

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