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 ELECTRONIC

The Art of Measurement

11 in 1
Anemometer, Humidity meter, Barometer
UV Light Meter, Altitude. Pt 1000 Temp. (optional)
Sport/Weather meter

ENVIRONMENT METER

Model : SP-9202

FEATURES

* 11 in 1 professional environment instruments:
  1. Air velocty/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 atomsphere value and altitude measurement precisely.
* Optional Pt 1000 ohm Temp. probe for the prcision 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.
* ℃/℉ 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 velocty/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 ℃ (32 to 122 ℉)
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 Accessory	Instruction Manual
Optional Accessories	Pt 1000 ohm Temp. probe, TP-1000

ELECTRICAL SPECIFICATION (23 ± 5℃)

Air velocity

Unit	*Range*	*Resolution*	*Accuracy*
ft/min	80 to 3937 ft/min	1 ft/min	± 3% F.S. *@ F.S. : full scale*
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 ℃	0.1 ℃	
	32 to 122 ℉	0.1 ℉	

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

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 ℃	0.1 ℃	± 1.2 ℃
	32 to 122 ℉	0.1 ℉	± 2.5 ℉

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*
℃	-10.0 to 70.0 ℃	0.1 ℃	± 1.2 ℃
℉	14.0 to 158.0 ℉	0.1 ℉	± 2.5 ℉

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*
℃	-25.3 to 49.0 ℃	0.1 ℃	* Calculate from the humidity/Temp. value
℉	-13.5 to 120.0 ℉	0.1 ℉	
Please refer to http://en.wikipedia.org/wiki/Dew_point			

Wet bulb Temp.

Unit	*Range*	*Resolution*	*Remark*
℃	-5.4 to 49.0 ℃	0.1 ℃	* Calculate from the humidity/Temp. value
℉	22.2 to 120 ℉	0.1 ℉	
Please refer to http://en.wikipedia.org/wiki/Wet-bulb_temperature			

Heat index

Unit	*Range*	*Resolution*	*Accuracy*
℃	0 to 100.0 ℃	0.1 ℃	± 2.0 ℃
℉	32 to 212 ℉	0.1 ℉	± 3.6 ℉
Pleas refer to http://en.wikipedia.org/wiki/Heat_index			

Effects of the heat index (shade values)

Celsius	Fahrenheit	Notes
27– 32 ℃	80– 90 ℉	Caution : Fatigue is possible with prolonged exposure and activity. Continuing activity could result in heat cramps
32– 41 ℃	90– 105 ℉	Extreme caution : Heat cramps, and heat exhaustion are possible. Continuing activity could result in heat stroke
41– 54 ℃	105– 130 ℉	Danger : Heat cramps, and heat exhaustion are likely ; heat stroke is probable with continued activity
over 54 ℃	over 130 ℉	Extreme danger : Heat stroke is imminent

Note :
Exposure to full sunshine can increase heat index values by up to 8 ℃ (14℉).

Wind chill

Unit	*Range*	*Resolution*	*Accuracy*
℃	-9.4 to 44.2 ℃	0.1 ℃	± 2.0 ℃
℉	15.0 to 112.0 ℉	0.1 ℉	± 3.6 ℉

** Wind chill value is effect only when the Temp. value < 15 ℃ 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.* 1210-SP9202