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

Sport/Weather meter

ENVIRONMENT METER

Model: SP-8002 *ISO-9001, CE, IEC1010*





The Art of Measurement

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

Sport/Weather meter

ENVIRONMENT METER

Model: SP-8002

FEATURES

- * 9 in 1 professional environment instruments:
 - 1. Air velocty/Temp., 2. Humidity/Temp., 3. UV 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 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.
- * 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.
- * °C/°F detection by pressing button on the front panel.
- * Hold function to freeze the current reading value.

GENERAL SPECIFICATIONS

8 mm LCD display
1. Air velocty/Temp.
2. Humidity/Temp.
3. UV Light
4. CFM, CMM
5. Dew point
6. Wet bulb
7. Wind chill
8. Heat index
9. Pt 1000 ohm Temp.(optional)
Max. 80% RH.
0 to 50 ℃ (32 to 122 °F)
Indication of " "
CR 2032 DC 3V battery
Approx. DC 5 mA
160g (battery included)
HWD 120 x 45 x 20 mm (4.7 x 1.8 x 1.2 inch).
Instruction Manual
Pt 1000 ohm Temp. probe, TP-1000

ELECTRICAL SPECIFICATION ($23 \pm 5\%$)

Air velocity

		_	
Unit	Range	Resolution	Accuracy
ft/min	80 to 3937 ft/min	1 ft/min	
m/s	0.4 to 20.0 m/s	0.1 m/s	± 3% F.S.
km/h	1.4 to 72.0 km/h	0.1 km/h	@ F.S. : full scale
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 °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
			<i>≧70% RH :</i>
			± (4 %rdg +1.2 %RH)
Temp.	0 to 50 ℃	0.1 ℃	± 1.2 ℃
	32 to 122 °F	0.1 °F	± 2.5 °F

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 ℃	0.1 ℃	± 1.2 ℃
°F	14.0 to 158.0 °F	0.1 °F	± 2.5 °F

Dew point Temp

Unit	Range	Resolution	Remark
°C	-25.3 to 49.0 ℃	0.1 ℃	* Calculate from the
°F	-13.5 to 120.0 °F	0.1 °F	humidity/Temp. value
Please refer to http://en.wikinedia.org/wiki/Dew_noint			

Wet bulb Temp

Unit	Range	Resolution	Remark	
°C	-5.4 to 49.0 ℃	0.1 ℃	* Calculate from the	
°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	
°C	0 to 70.0 ℃	0.1 ℃	± 2.0 ℃	
°F	32 to 158 °F	0.1 °F	± 3.6 °F	
Pleas refer to http://en.wikipedia.org/wiki/Heat_index				

Effects of the heat index (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 ℃	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 ℃	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	
$^{\circ}\!\mathbb{C}$	-0.4 to 44.2 ℃	0.1 ℃	± 2.0 ℃	
°F	15.0 to 112.0 °F	0.1 °F	± 3.6 °F	
* Wind chill value is effect only when the Temp. value < 15 $^\circ\!$				
Air velocity value > 1.4 m/s.				
* Please refer to http://en.wikipedia.org/wiki/Wind_chill				

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