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

9 in 1 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

Display	8 mm LCD display
Measurement	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)
Operating	Max. 80% RH.
Humidity	
Operating	0 to 50 ℃ (32 to 122 °F)
Temperature	
Over Input	Indication of " "
Display	
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	Pt 1000 ohm Temp. probe, TP-1000
Accessories	

ELECTRICAL SPECIFICATION (23 ± 5°C)

Air velocity

Range	Resolution	Accuracy	
80 to 3937 ft/min	1 ft/min		
0.4 to 20.0 m/s	0.1 m/s	± 3% F.S.	
1.4 to 72.0 km/h	0.1 km/h	@ F.S. : full scale	
0.9 to 44.7 mile/h	0.1 MPH		
0.8 to 38.8 knots	0.1 knots		
0 to 50 ℃	0.1 ℃		
32 to 122 °F	0.1 °F		
:			
: feet per minute	MPH : miles p	per hour	
meters per second	knots : nautio	cal miles per hour	
km/h : kilometers per hour			
	0.4 to 20.0 m/s 1.4 to 72.0 km/h 0.9 to 44.7 mile/h 0.8 to 38.8 knots 0 to 50 °C 32 to 122 °F : feet per minute meters per second	80 to 3937 ft/min 1 ft/min 0.4 to 20.0 m/s 0.1 m/s 1.4 to 72.0 km/h 0.1 km/h 0.9 to 44.7 mile/h 0.1 kmrs 0.8 to 38.8 knots 0.1 knots 0 to 50 °C 0.1 °C 32 to 122 °F 0.1 °F : : : feet per minute MPH : miles r meters per second knots : nautic	

Ar flow

				Unit	Range	Resolution
Unit	Range	Resolution		°C	-0.4 to 44.2 °C	0.1 ℃
CMM	0.024 to 36000	0.001/0.01/0.1/1		°F	15.0 to 112.0 °F	0.1 °F
				* Wind	chill value is effect of	only when the Te
CFM	0.847 to 1271300	0.001/0.01/0.1/1/10 (x10)/100 (x100)		Air v	elocity value > 1.4 r	n/s.
				* Please	e refer to http://en.v	wikipedia.org/wil
* 4000	arapaa and anaaifiaati	and listed in this breakurs are subject to a	_	a a a with	out notice	

Humidity/Temp.

Unit Resolution Range Accuracy % RH 10 to 95 %RH 0.1 %RH < 70% RH + 4 %RH ≥70% RH : ± (4 %rdg +1.2 %RH) 0 to 50 °C ± 1.2 °C Temp. 0.1 ° 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
Domark		

- 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 260 nm to 390 nm.

Pt 1000 ohm Thermometer (optional probe)

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

Dew point Temp.

Wet bulb 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				

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 °C
°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 °C	90– 105 °F	Extreme caution :		
		Heat cramps, and heat exhaustion are possible.		
		Continuing activity could result in heat stroke		
41– 54 ℃	105– 130 °F	Danger :		
		Heat cramps, and heat exhaustion are likely ;		
		heat stroke is probable with continued activity		
over 54 °C	over 130 $^\circ\mathrm{F}$	Extreme danger : Heat stroke is imminent		
Note :	Note :			
Exposure t	Exposure to full sunshine can increase heat index values by up to			
8 ℃ (14°I	8 °C (14°F).			

Wind chill

Jnit	Range	Resolution	Accuracy		
°C	-0.4 to 44.2 °C	0.1 ℃	± 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 $^\circ\!\!\mathbb{C}$ and					
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.

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