ENVIRONMENT METER

Model: ME-9100 *ISO-9001, CE, IEC1010*







The Art of Measurement

ENVIRONMENT METER

Model: ME-9100

FEATURES

*	7 in 1 professional environment instruments:
	 Sound level meter., 2. Humidity/Temp.,
	3. Light meter 4. Dew point, 5. Wet bulb,
	6. Heat index, 7. Type K Temp.(optional Temp. probe)
*	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.
*	High precision humidity sensor with fast response time.
*	Build in baro sensor for the atmosphere value
	and altitude measurement precisely.
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L	instrument especially for user one hand operation.			
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	provides high accuracy at high and low air velocity.			
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L	and altitude measurement precisely.			
*	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	14 mm LCD display.
Measurement	 Sound level meter.
	Humidity/Temp.
	3. Dew point
	4. Wet bulb
	5. Heat index
	6. Light meter
	7. Type k Temp.(optional)
Operating	Max. 80% RH.
Humidity	
Operating	0 to 50 $^{\circ}\mathrm{C}$ (32 to 122 $^{\circ}\mathrm{F}$)
Temperature	
Over Input	Indication of " "
Display	
Power Supply	UM4-AAA DC 1.5 V battery x 3 PCs.
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	Type K Temp. probe :
Accessories	TP-01, TP-02A, TP-03, TP-04, TP-05

ELECTRICAL SPECIFICATION (23 ± 5°C)

Sound level meter

Measurement	35 to 130 dB, Auto range			
Range Resolution	0.1 dD			
	0.1 dB.			
	31.5 Hz to 8,000 Hz.			
Frequency				
Weighting	Frequency Characteristics o			
	Weighting	weig	ıhting networ	k.
		* A 1	veighting :	
		Th	ne characterist	ic is simulated as
		"	Human Ear Lis	ting " response.
	Time	" Fas	st " time weig	ghting.
	Weighting		•	, ,
Accuracy	Characteristics of " A " frequency weighting			y weighting
(23± 5 °C)	network meet			, , ,
	Under 94 dB ir	nput	signal, the a	ccuracy
	are:			
	31.5	Hz	± 3.5 dB	
	63	Hz	± 2.5 dB	
	125	Hz	± 2.0 dB	
	250	Hz	± 1.9 dB	
	500	Hz	± 1.9 dB	
	1 K	Hz	± 1.4 dB	
	2 K	Hz	± 2.6 dB	
	4 K	Hz	± 3.6 dB	1
	8 K	Hz	± 5.6 dB	1
				1

Calibrator	B & K (Bruel & kjaer), multi-fuction		
	acoustic calibrator, model : 4226.		
Microphone	Electric condenser microphone.		
Size of	1/2 inch standard size.		
microphone			
Data Hold	Hold function to freeze the display value.		
Optional	94 dB Sound Calibrator,		
Accessories	Model: SC-941		
Remark : Abov	Remark : Above specification tests under the environment RF Field		
Strei	Strength less than 3 V/M & frequency less than 30 MHz on		

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

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	
Remar	k : Ft-cd : feet candle	•	•

Dew point Temp.

Unit	Range	Resolution	Remark
$^{\circ}\!\mathbb{C}$	-25.3 to 49.0 ℃	0.1 ℃	* Calculate from the
°F	-13.5 to 120.0 °F	0.1 °F	humidity/Temp. value

Wet bulb Temp.

Unit	Range	Resolution	Remark			
$^{\circ}\!\mathbb{C}$	-5.4 to 49.0 ℃	0.1 ℃	* Calculate from the			
°F	22.2 to 120 °F	0.1 °F	humidity/Temp. value			
Rema	Remark :					
Please refer to http://en.wikipedia.org/wiki/Wet-bulb_temperature						

Heat index

Unit	Range	Resolution	Accuracy	
$^{\circ}\!\mathbb{C}$	0 to 100.0 ℃	0.1 ℃	± 2.0 °C	
°F	32 to 212 °F	0.1 °F	± 3.6 °F	

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

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 °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		
Remark :				
Exposure to full sunshine can increase heat index values by up to				
8°C (14°F).				

Type K Thermometer

Unit	Range	Resolution	Accuracy		
$^{\circ}\!\mathbb{C}$	-148 to 2372 °F	1 ℃	± (1% rdg + 2°F)		
°F	-100 to 1300 ℃	1 °F	± (1% rdg + 1°C)		
* The above accuracy are based on the meter only.					

^{*} Type K Temp. probe (TP-01, TP-02A, TP-03, TP-04, TP-05)

is optional, not included

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