Anemometer, Anemometer, %RH, Temp., Type K

4 IN 1 METER

Model: LM-8100 *ISO-9001, CE, IEC1010*







The Art of Measurement

Anemometer, Humidity meter Light Meter, Thermometer

Model: LM-8100

FEATURES

*	4 in 1 professional measuring instrument: Anemometer,
	Hygrometer, Thermometer, and Light meter.
*	Tiny bone shape with lightweight 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.
*	Exclusive photo diode and color correction filter light
	sensor, spectrum meets C.I.E. photopic.
*	High precision humidity sensor with fast response time.
*	Standard type K (NiCr-NiAl) thermocouple input jack
	suitable for all kinds of type K probe.
*	built- in microprocessor circuit assures executent
	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.
*	Lux/Feet-candle selection by pressing button on the
	front panel.
*	Air velocity measuring units selection by pressing button
L	on the front panel for five kinds of units.
*	Multi channel display for relative humidity and
	temperature measured values or air velocity and
	temperature measured values at the same time.
	Zero button design makes light meter calibration.
*	Hold function to freeze the current reading value.
*	Computer data output interface (RS232/USB).
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GENERAL SPECIFICATIONS

Display	LCD display, LCD soze: 41.5 x 31.5 mm.	
Measurement	Anemometer, Humidity, Temperature. Light	
Operating	Max. 80% RH.	
Humidity	0 to 50° C (32 to 122° F)	
Temperature		
Over Input	Indication of " "	
Display		
Data Output	RS 232/USB PC serial interface.	
	* Connect the optional RS232 cable	
	UPCB-02 will get the RS232 plug.	
	* Connect the optional USB cable	
	USB-01 will get the USB plug.	
Power Supply	DC 1.5 V battery (UM4, AAA) x 6 PCs,	
	DC 9V adapter input. @ AC/DC power adapter is optional.	
Power	Anemoter : Approx. DC 11 mA.	
Consumption	Other functions: Approx. DC 7.5 mA.	
Weight	280 g/0.62 LB (battery included).	
Dimension	HWD 177 x 70 x 32 mm (7.0x 2.8 x 1.3 inch).	
Standard	Instruction Manual 1 PC	
Accessory		
Optional	Type K Temperature probe, Carrying case	
Accessories	USB cable/USB-01, RS232 cable/UPCB-02	
	Data Acquisition software, SW-U801-WIN	
	AC/DC power adapter.	

ELECTRICAL SPECIFICATION (23±5℃)

Measurement		Range	Resolution
Air velocity	ft/min	80 to 5910 ft/min	1 ft/min
	m/s	0.4 to 30.0 m/s	0.1 m/s
	km/h	1.4 to 108.0 km/h	0.1 km/h
	MPH	0.9 to 67.0 mile/h	0.1 MPH
	knots	0.8 to 58.3 knots	0.1 knots
	Temperature	32 to 122 °F	0.1 °F
	(Semiconductor)	0 to 50 °C	0.1 ℃

Measurement		Range	Resolution
Humidity	% RH	10 to 95 %RH	0.1 %RH
	Temperature	32 to 122 °F	0.1 °F
	(Semiconductor)	0 to 50 ℃	0.1 ℃

Measurement		Range	Resolution
Light	Lux	0 to 2,200 Lux	1 Lux
		1,800 to 20,000 Lux	10 Lux
* auto range	Ft-cd	0 to 204.0 Fc	0.1 Ft-cd
		170 to 1,860 Fc	1 Ft-cd
Temperature (Type K)		-148 to 2372 °F	0.1 °F
		-100 to 1300 ℃	0.1 ℃

Measurement	Range	Accuracy
Air velocity 80 to 5910 ft/min		
_	0.4 to 30.0 m/s	≤ 20 m/s : ± 3% F.S.
	1.4 to 108.0 km/h	> 20 m/s : ± 4% F.S.
	0.9 to 67.0 mile/h	
	0.8 to 58.3 knots	
	32 to 122 °F	± 2.5 °F
	0 to 50 ℃	± 1.2 ℃
Humidity	10 to 95 %RH	< 70% RH :
		± 4 %RH
		<i>≥70% RH :</i>
		: ± (4%rdg + 1.2 %RH)
	32 to 122 °F	± 2.5 °F
	0 to 50 ℃	± 1.2 ℃
Light	0 to 20,000 Lux	± 5% rdg ± 8 dgt
	0 to 1,860 Fc	
Temperature	-148 to 2372 °F	± (1% rdg + 2°F)
(Type K)	-100 to 1300 ℃	± (1% rdg + 1°C)

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 Ft-cd: feet candle

OPTIONAL TEMPERATURE PROBE AND OTHER ACCESSORIES

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DC222 coblo	Isolated RS232 cable. Used to connect the
RS232 cable,	
UPCB-02	meter to the computer (COM port)
USB cable,	USB cable. Used to connect the meter to
USB-01	the computer (USB port).
Data Acquisition	* The SW-U801-WIN is a multi
software	displays (1/2/4/6/8 displays)
SW-U801-WIN	powerful application software,
	provides the functions of data
	logging system, text display,
	angular display, chart display,
	data recorder high/low limit, data
	query, text report, chart report
	.xxx.mdb data file can be
	retrieved for EXCEL, ACESS,
	wide intelligent applications.

Carrying case, CA-52A * High quality carrying case with sash.