Anemometer (CMM, CFM) Humidity meter, Light meter Type K Thermometer

Model : LM-8010

ISO-9001, CE, IEC1010

FEATURES

* Humidity : 10 to 95 %RH, Temperature.
* Anemometer : 0.4 to 30.0 m/s, Temperature.
* Anemometer (air flow) : CMM, CFM.
* Anemometer unit : m/s, km/h, MPH, knots, ft/min.
* Light : 0 to 20,000 Lux, 0 to 2,000 Ft-cd. auto range.
* Type K Thermometer : -100 to 1300 ℃, ℃/℉.
* Data hold, Record (Max., Min.).
* Tiny bone shape with light weight and pocket size.
* DC 9V battery (006P) or DC 9V adapter in.

LUTRON ELECTRONIC

The Art of Measurement

CMM. CFM

Anemometer, Hygrometer, Light Meter, Thermometer
Model : LM-8010

FEATURES

* 5 in 1 professional measuring instrument: Anemometer, Air flow, 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 thin-film capacitance humidity sensor with fast response to the humidity changes.
* Standard type K (NiCr-NiAl) thermocouple input jack suitable for all kinds of type K probe.
* Built- in microprocessor circuit assures excellent performance and accuracy.
* Concise and compact buttons arrangement, easy operation.
* Memorize the maximum and minimum value with recall.
* ℃/℉ selectable by pressing button on the front panel.
* Lux/Feet-candle selectable by pressing button on the front panel.
* Air velocity measuring units selectable by pressing button on the front panel for five kinds of units.
* Air flow (CFM. CMM) measurement can set the desired area dimension.
* 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.

GENERAL SPECIFICATIONS

Display	8 mm LCD display
Measurement	Anemometer, Humidity, Temperature, Light, Air flow (CFM/CMM).
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50° C (32 to 122° F)
Over Input Display	Indication of "- - - - "
Power Supply	006P DC 9V battery (Heavy duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimension	*HWD :* 156x60x33 mm 6.14x2.36x1.29 inch
Standard Accessory	Instruction Manual
Optional Accessories	Carrying case, CA-05A, CA-52A, CA-06. Temperature probe (TP-01, TP-02A, TP-03. TP-04) :
TP-01	* Max. short-tern operating Temperature: 300 ℃ (572 ℉). * It is an ultra fast response naked-bead thermocouple
TP-02A	* Measure Range: -50 ℃ to 900 ℃. * Dimension:10cm tube, 3.2mm Dia.
TP-03	* Measure Range: -50 ℃ to 1200 ℃. * Dimension: 10cm tube, 8mm Dia.
TP-04	* Surface temperature probe. * Measure Range: -50 ℃ to 400 ℃.

ELECTRICAL SPECIFICATION (23 ± 5℃)

Measurement		Range	Resolution
Air velocity	ft/min	80 to 5,910 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 ℉	0.1 ℉
	(thermister)	0 to 50 ℃	0.1 ℃

Measurement		Range	Resolution
Air flow	CMM cube meter/min	54,000 CMM	0.001 to 1 CMM
	CFM cube feet/min	1,908,400 CFM	0.001 to 100 CFM

Measurement		Range	Resolution
Humidity	% RH	10 to 95 %RH	0.1 %RH
	Temperature	32 to 122 ℉	0.1 ℉
	(thermister)	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 2,000 Fc	1 Ft-cd

Measurement	Range	Resolution
Temperature (Type K)	-148 to 2,372 ℉	0.1 ℉
	-100 to 1,300 ℃	0.1 ℃

Measurement	Range	Accuracy
Air velocity	80 to 5,910 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 ℉	± 2.5 ℉
	0 to 50 ℃	± 1.2 ℃

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

Measurement	Range	Accuracy
Humidity	10 to 95 %RH	< 70% RH : ± 4 %RH ≧70% RH : : ± (4%rdg + 1.2 %RH)
	32 to 122 ℉	± 2.5 ℉
	0 to 50 ℃	± 1.2 ℃

Measurement	Range	Accureacy
Light	0 to 20,000 Lux	± 5% rdg ± 8 dgt
	0 to 2,000 Fc	

Measurement	Range	Accuracy
Temperature (Type K)	-148 to 2,372 ℉	± (1% rdg + 2℉)
	-100 to 1,300 ℃	± (1% rdg + 1℃)

Measurement	Area setting
CMM	0.001 to 30.000 meter square
CFM	0.01 to 322.92 feet square