CMM. CFM

# Anemometer, Hygrometer, Light Meter, Thermometer

# Model : LM-8010

#### **FEATURES**

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*	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.
*	$^\circ\!C/^\circ\!F$ 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**

Display8 mm LCD displayMeasurementAnemometer, Humidity, Temperature, Light, Air flow (CFM/CMM).OperatingMax. 80% RH.Humidity0 to 50° C (32 to 122° F)TemperatureOver InputOver InputIndication of " "Display006P DC 9V battery (Heavy duty type)Power Supply006P DC 9V battery (Heavy duty type)Power Supply006P DC 9V battery (Heavy duty type)Power Supply006P DC 9V battery included)Dimension160g (battery included)DimensionHWD : 156x60x33 mm 6.14x2.36x1.29 inchStandardInstruction ManualAccessoryCarrying case, CA-52A, CA-06.OptionalCarrying case, CA-52A, CA-06.AccessoriesTemperature probe (TP-01, TP-02A, TP-03. TP-04) : TP-01 * Max. short-tern operating Temperature: 300 °C (572 °F). * It is an ultra fast response naked-bead thermocoupleTP-02A * Measure Range: -50 °C to 900 °C. * Dimension: 10cm tube, 3.2mm Dia. TP-03 * Measure Range: -50 °C to 1200 °C. * Dimension: 10cm tube, 8mm Dia. TP-04 * Surface temperature probe. * Measure Range: -50 °C to 400 °C.	GENERAL SPE	CIFICA	TIONS	
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## ELECTRICAL SPECIFICATION ( $23 \pm 5^{\circ}$ )

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 °F	0.1 °F
	(thermister)	0 to 50 °C	0.1 ℃
Measurement		Range	Resolution

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

Measuremen	t	Range	Resolution
Humidity	% RH	10 to 95 %RH	0.1 %RH
	Temperature	32 to 122 °F	0.1 °F
	(thermister)	0 to 50 °C	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 °F	0.1 °F
	-100 to 1,300 °C	0.1 ℃

Range	Accuracy
80 to 5,910 ft/min	
0.4 to 30.0 m/s	$\leq 20 \text{ m/s} : \pm 3\% \text{ F.S.}$
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 °C	± 1.2 °C
er minute M	PH : miles per hour
per second kr	nots : nautical miles per hour
ers per hour Fi	t-cd : feet candle
	80 to 5,910 ft/min 0.4 to 30.0 m/s 1.4 to 108.0 km/h 0.9 to 67.0 mile/h 0.8 to 58.3 knots 32 to 122 °F 0 to 50 °C er minute M mer second kr

Measurement	Range	Accuracy
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 °C	± 1.2 °C

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

Measurement	Range	Accuracy
Temperature	-148 to 2,372 °F	± (1% rdg + 2°F)
(ТуреК)	-100 to 1,300 °C	± (1% rdg + 1℃)

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

\* Appearance and specifications listed in this brochure are subject to change without notice.