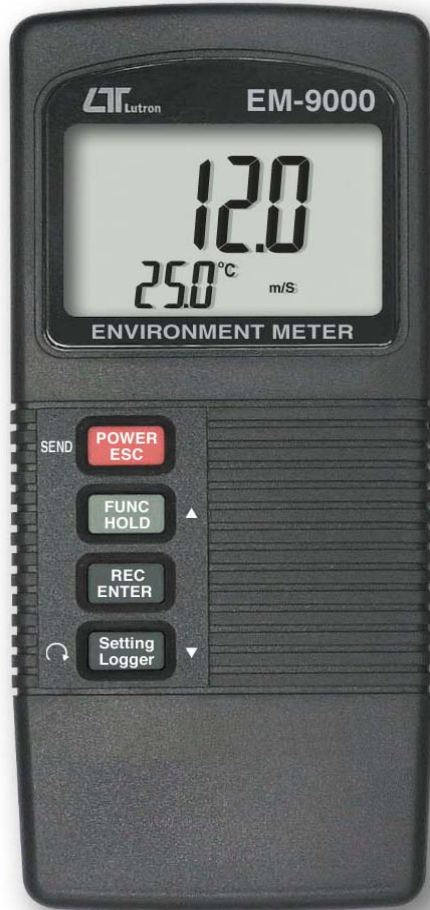


*Humidity, Anemometer, Light, Type K/J*

# ENVIRONMENT METER

**Model : EM-9000**

*ISO-9001, CE, IEC1010*



## FEATURES

- \* 4 in 1 : Humidity meter, Light meter, Anemometer, Type K thermometer.
- \* Humidity : 10 to 95% RH, 0 to 50 °C.
- \* Light : 0 to 20,000 Lux.
- \* Anemometer : 0.5 to 25 m/s.
- \* Type K thermometer : -100 to 1300 °C, °C/°F.
- \* Type J thermometer : -100 to 1200 °C, °C/°F.
- \* Unit select, Data hold, REC ( max., min. ).
- \* Separate probe, easy operation.
- \* RS-232 interface, Record ( max., min. ).
- \* Optional IR temperature probe.
- \* DC 9V battery ( 006P ) or DC 9V adapter in.
- \* Patented, Data logger.



**LUTRON ELECTRONIC**



***The Art of Measurement***

**Humidity/Temp., Anemometer, Light, Type K/J  
Sound level measurement ( optional )**

# ENVIRONMENT METER

**Model : EM-9000**

**FEATURES**

- Environment instrument, multi-function, all in one.
- \* Type K/J thermometer, Humidity/Temp. meter, Anemometer, Light meter, Sound level meter ( optional adapter )
- \* Thermocouple Thermometer can default to accept type K or type J Temp. probe.
- \* Temperature measurement can default the display unit to °C or °F.
- \* Anemometer can default the display unit to m/S, FPM, Km/h, mph, knot.
- \* Light meter can default the display unit to LUX or Ft-cd.
- \* Meter can default auto power off or manual power off.
- \* 0.1 degree resolution for temperature measurement.
- \* Microcomputer circuit provides intelligent function and high accuracy.
- \* LCD with two display, easy readout.
- \* Manual and auto data logger, with flexible sampling time selection, can save max. 1,600 reading data.
- \* Records Maximum and Minimum readings with recall.
- \* Data hold function for freezing the desired value.
- \* Build in the input socket for DC 9V power adapter.
- \* RS232 PC serial interface.
- \* Few panel buttons, easy operation.
- \* Built-in low battery indicator.
- \* Heavy duty & compact housing case.
- \* Available for the HVAC applications.

**GENERAL SPECIFICATIONS**

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm dual function LCD display.
Measurement	* Type K/J thermometer * Humidity/Temp. meter * Anemometer with Temp. * Light meter * Sound level meter ( optional adapter )
Sampling Time of Data Logger	Manual Push the data logger button once will save data one time. * Set sampling time to 0 second. Auto 1, 2, 5, 10, 30, 60, 600, 1800, 3600 seconds.
Data Logger number	Max. 1,600-point Data logger
Temperature Compensation	Automatic cold junction compensation both type K/J thermometer * Type K/J Temp.
Linear Compensation	Linear Compensation for the full range. * Type K/J Temp.
Input Socket	Standard 2 pin thermocouple socket. * Type K/J Temp.
Over Indication	Show " - - - - - ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of display	Approx. 1 second.
Power off	Auto shut off to save battery life or manual off by push button.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 80% R.H.
Power Supply	006P DC 9V battery ( Alkaline or Heavy duty type ). DC 9V adapter input. * AC/DC power adapter is optional.
Power Current	Type K/J thermometer : Approx. DC 6 mA Humidity, Anemometer, Light meter : Approx. DC 10 mA

Weight	306 g/0.67 LB. * Include probe and batteries.	
Dimension	Meter	135 x 60 x 33 mm.
	Probe	105 x 46 x 29 mm.
Accessories Included	Instruction manual..... 1 PC Probe ( EM-900P ).....1 PC	
Optional Accessories	* Type K thermocouple probe. TP-01, TP-02A, TP-03, TP-04 * Sound adapter, SL-407 * AC to DC 9V adapter. * RS232 cable, UPGB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801-WIN. * Data Logger software, SW-DL2005. * Carrying case, CA-05A, CA-06	

**ELECTRICAL SPECIFICATIONS ( 23± 5 °C )**

**Type K/J Thermometer**

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )
Type J	0.1 °C	-50.0 to 1100.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2012.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )

\* Accuracy value is specified for the meter only.  
\* Temp. probe ( Type K, TP-01 TP-02A, TP-03, TP-04 ) is the optional accessories, refer page 22.

**Anemometer**

**A. Air velocity**

Measurement	Range	Resolution	Accuracy
m/S	0.4 - 25.0 m/s	0.1 m/s	± (2% + 0.2 m/s)
km/h	1.4 - 90.0 km/h	0.1 km/h	± (2% + 0.8 km/h)
mph	0.9 - 55.9 mile/h	0.1 mile/h	± (2% + 0.4 mile/h)
knot	0.8 - 48.6 knots	0.1 knots	± (2% + 0.4 knots)
FPM	80 - 4930 ft/min	1 ft/min	± (2%+40 ft/min.)
<i>Note:</i> m/S - meters per second km/h - kilometers per hour FPM - feet/per minute knot - nautical miles per hour mph - miles per hour (international knot)			

**B. Temperature**

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

**Humidity/Temp. meter**

**A. Humidity**

Measuring Range	0 % to 95 % R.H.
Resolution	0.1 % R.H.
Accuracy	≥ 70% RH ± (3% reading + 1% RH). < 70% RH ± 3% RH.

**B. Temperature**

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 °C/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

**Light meter**

Measuring Range	LUX	0 to 20,000 LUX.
	Ft-cd	0 to 2,000 Ft-cd
Resolution	LUX	1 LUX
	Ft-cd	0.1 Ft-cd
Accuracy	± ( 5% rdg ± 8 dgt )	

*Note:* Ft-cd : Feet candle

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