

*SD Card, real time data recorder  
+ type K/J thermometer*

# CUP ANEMOMETER

**Model : AM-4257SD**

**ISO-9001, CE, IEC1010**



**Lutron**

**LUTRON ELECTRONIC**

***The Art of Measurement***

**SD card real time data recorder  
+ type K/J thermometer**

# CUP ANEMOMETER

**Model : AM-4257SD**

## FEATURES

* Cup anemometer, available for the outside air speed measurement and recording.
* Cup probe is built in tripod fix nut.
* Air velocity : m/S, Ft/min, Km/h, Knots, Mile/h,
* Air temperature ( °C, °F )
* Type K, Type J thermocouple thermometer.
* Air Temp. used thermistor sensor, fast response time.
* Real time SD memory card Datalogger, it Built-in Clock and Calendar, real time data recorder , sampling time set from 1 second to 3600 seconds.
* Manual datalogger is available ( set the sampling time to 0 ), during execute the manual datalogger function, it can set the different position ( location ) No. ( position 1 to position 99 ).
* Innovation and easy operation, computer is not need to setup extra software, after execute datalogger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information ( year/month/date/ hour/minute/second ) to the Excel directly, then user can make the further data or graphic analysis by themselves.
* SD card capacity : 1 GB to 16 GB.
* LCD with green light backlight, easy reading.
* Can default auto power off or manual power off.
* Data hold, record max. and min. reading.
* Microcomputer circuit, high accuracy.
* Power by UM3/AA ( 1.5 V ) x 6 batteries or DC 9V adapter.
* RS232/USB PC COMPUTER interface.
* Separate probe, easy for operation of different measurement environment.
* Wide applications: use this anemometer to check air conditioning & heating systems, measure air velocities, wind temperature...etc.

## GENERAL SPECIFICATIONS

Circuit	Custom microprocessor LSI circuit.	
Display	LCD size : 52 mm x 38 mm LCD with green backlight ( ON/OFF ).	
Measurement Unit	<i>Air velocity:</i> m/S (meters per second) Km/h (kilometers per hour) Ft/min (FPM, feet per minute) Knots (nautical miles per hour) Mile/h (mph, miles per hour)  <i>Air temperature:</i> °C, °F Type K/ Type J thermometer. °C, °F	
Datalogger	Auto	1, 2, 5, 10, 30, 60, 120, 300, 600, 1800 3600 second. <i>@ Sampling time can set to 1 second, but memory data may loss.</i>
Sampling Time Setting range	Manual	Push the data logger button once will save data one time. <i>@ Set the sampling time to 0 second.</i> <i>@ Manual mode, can also select the 1 to 99 position ( Location ) no.</i>
Memory Card	SD memory card. 1 GB to 16 GB.	
Advanced setting	* Set clock time ( Year/Month/Date, Hour/Minute/ Second ) * Set sampling time * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * SD memory card Format * Set thermometer type to Type K or Type J * Set temperature unit to °C or °F	
Data Hold	Freeze the display reading.	

Temperature Compensation	Automatic temp. compensation for the Anemometer function and the type K/J thermometer.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Data Output	RS 232/USB PC computer 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.
Operating Temperature	0 to 50 °C .
Operating Humidity	Less than 85% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery ( UM3, AA ) x 6 PCs, or equivalent. * DC 9V adapter input. ( AC/DC power adapter is optional ).
Power Current	Normal operation ( w/o SD card save data and LCD Backlight is OFF ) : <i>Approx. DC 15 mA.</i> When SD card save the data and LCD Backlight is OFF ) : <i>Approx. DC 36 mA.</i>
Weight	347 g/ 0.76 LB. * Meter only
Dimension	<i>Main instrument :</i> 182 x 73 x 47.5 mm ( 7.1 x 2.9 x 1.9 inch ) <i>Anemometer sensor head :</i> Round, 72 mm Dia.
Accessories Included	* Instruction manual.....1 PC * Anemometer probe..... 1 PC * Hard carrying case ( CA-06 ).....1 PC
Optional Accessories	SD Card ( 2 G ) Type K thermocouple probe. AC to DC 9V adapter. USB cable, USB-01. RS232 cable, UPCB-02. Data acquisition software, SW-U801-WIN. Excel data acquisition software, SW-E802.

## ELECTRICAL SPECIFICATIONS ( 23± 5 °C )

### Air velocity

Measurement	Range	Resolution	Accuracy
m/S	0.9 - 35.0 m/S	0.1 m/S	± ( 2%+0.2 m/S)
Km/h	2.5 - 126.0 Km/h	0.1 Km/h	± ( 2%+0.8 Km/h)
Knot	1.4 - 68.0 Knots	0.1 mph	± ( 2%+0.4 Knots)
Ft/min	144 - 6895 Ft/min	0.1 Knots	± ( 2%+40 Ft/min)
Mile/h	1.6 - 78.2 Mile/h	1 FPM	± ( 2%+0.4 Mile/h)

### Air 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

### Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	0.1 °C	-50.0 to 1300.0 °C -50.1 to -100.0 °C	± ( 0.4 % + 0.5 °C ) ± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F -58.1 to -148.0 °F	± ( 0.4 % + 1 °F ) ± ( 0.4 % + 1.8 °F )
Type J	0.1 °C	-50.0 to 1200.0 °C -50.1 to -100.0 °C	± ( 0.4 % + 0.5 °C ) ± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2192.0 °F -58.1 to -148.0 °F	± ( 0.4 % + 1 °F ) ± ( 0.4 % + 1.8 °F )

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4 JAPAN : 3151214	TAIWAN : M 358970 M 359043 U.S.A. : Pending
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\* Appearance and specifications listed in this brochure are subject to change without notice.

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