SD card real time data recorder, + type K/J Temp.
Mini vane, Air flow (CMM, CFM)
ANEMOMETER

Model : AM-4233SD   *ISO-9001, CE, IEC1010*

20.0
25.0 °C
m/S

POWER   HOLD   REC

UNIT ▲   FUNCTION ▼

SET TIME   LOG ENTER

SD Card Data Recorder
ANEMOMETER
Type K/J Thermometer, CFM / CMM

Lutron   **AM-4233SD**

LUTRON ELECTRONIC

The Art of Measurement

Mini vane ANEMOMETER   *+ type K/J Temp.*

Model : AM-4233SD

FEATURES

* Mini vane with 35mm Dia., lowfriction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
* Telescope probe, extension length 620 mm max.
* Replacement anemometer van set.
* Air velocity : m/s, Ft/min, Km/h, Knot, Mile/h,
* Air flow (CFM, CMM) measurement.
* Air temperature (℃, ℉)
* Air Temp. used thermistor sensor, fast response time.
* Fast humidity measuring response time.
* Type K, Type J thermocouple thermometer.
* 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.
* Applications : Environmental testing, HVAC, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint spray booths . measurements

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).

Measurement Unit	Air velocity:
	  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)
	Air flow :
	  CFM, CMM
	  * CFM : cube feet per minute
	  * CFM : cube meters per minute
	Type K/ Type J thermometer :℃, ℉
	Air temperature: ℃, ℉

Datalogger Sampling Time Setting range	Auto 1 second to 3600 seconds
	      @Sampling time can set to 1 second,
	        but memory data may loss.
	Manual Push the data logger button
	      once will save data one time.
	      @Set the sampling time to
	        0 second.
	      @Manual mode, can also select the
	        1 to 99 position (Location) no.

Memory Card	SD memory card. 1 GB to 16 GB. * It recommend use memory card ≦ 4 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 ℃ or ℉ * Set air flow type (CFM/USA, CMM/EURO) * Set air flow area dimension
Temperature Compensation	Automatic temp. compensation for the type K/J thermometer.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of Display	Approx. 1 second.
Operating Temperature	0 to 50 ℃.

Operating Humidity	Less than 85% R.H.

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.

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) :
	  Approx. DC 30 mA.
	When SD card save the data and LCD Backlight is OFF) :
	  Approx. DC 50 mA.

Weight	347 g/ 0.76 LB. * Meter only

Dimension	Main instrument :
	  182 x 73 x 47.5 mm
	  (7.1 x 2.9 x 1.9 inch)
	Anemometer sensor probe :
	  Round, 35 mm Dia .

Accessories Included	* Instruction manual......................1 PC * Anemometer probe.....................1 PC * Hard carrying case (CA-06)........... 1 PC
Optional Accessories	* SD Card (4 G) * Replacement anemometer van set. * Type K thermocouple probes. * 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 ℃)

Air velocity

Measurement	Range	Resolution	Accuracy
m/s	0.2 to 5.0 m/s	0.01 m/s	± (5% + a)
	5.1 to 20.0 m/s	0.1 m/s	reading
Km/h	0.70 to 18.00 km/h	0.01 Km/h	
	18.0 to 72.0 km/h	0.1 Km/h	or
Mile/h	0.50 to 11.20 mph	0.01 mph	± (1% + a)
(MPH)	11.2 to 44.7 mph	0.1 mph	full scale
Knot	0.40 to 9.70 knot	0.01 Knot	
	9.7 to 38.8 knot	0.1 Knot	
Ft/min	40-3940 ft/min	1 Ft/min	

@ a = 0.1 m/s, 0.3 km/h, 0.2 mile/h, 0.2 knot, 20 ft/min

Note:

m/s - meters per second   km/h - kilometers per hour
ft/min - feet per minute   knot - nautical miles per hour
mile/h - miles per hour   (INTERNATIONAL KNOT)

Air temperature

Measuring Range	0 ℃ to 50 ℃/32 ℉ to 122 ℉
Resolution	0.1 ℃/0.1 ℉
Accuracy	± 0.8 ℃/1.5 ℉

Air flow

Measurement	Range	Resolution
CMM (m^3/min.)	0 to 54,000 CMM	0.001 to 1 CMM
CFM (ft^3/min.)	0 to 1,907,000 CFM	0.001 to 100 CFM

Measurement	Area
CMM (m^3/min.)	0.001 to 30.000 m^2
CFM (ft^3/min.)	0.01 to 322.93 ft^2

Type K/J thermometer

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

* Appearance and specifications listed in this brochure are subject to change without notice.   1604-AM4233SD