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

## Model : AM-4233SD

*ISO-9001, CE, IEC1010* 





## SD Card real time data recorder, Air flow (CMM, CFM) 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.
<ul> <li>* Telescope probe, extension length 620 mm max.</li> </ul>
* Replacement anemometer van set.
* Air velocity : m/s, Ft/min, Km/h, Knot, Mile/h,
* Air flow ( CFM, CMM ) measurement.
* Air temperature ( °C, °F )
* Air Temp. used thermistor sensor, fast response time.
<ul> <li>* Fast humidity measuring response time.</li> </ul>
<ul> <li>Type K, Type J thermocouple thermometer.</li> </ul>
* 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.
<ul> <li>* Manual datalogger is available (set the sampling time to 0),</li> </ul>
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.
<ul> <li>* Applications : Environmental testing, HVAC, Air conveyors,</li> </ul>

Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case,

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	* Instruction manual1 PC		
Included	* Anemometer probe1 PC		
	* Hard carrying case (CA-06) 1 PC		
Optional	* SD Card ( 4 G ).		
Accessories	* Replacement anemometer van set.		
10000001100	* 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-0001-Will.		
	Exect Data Acquisition Software, SW-E002		

## Paint spray booths . measurements

Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size : 52 mm x 38 mm		
[ ]	LCD with green backlight ( ON/OFF ).		
Measurement	Air velocity:		
Unit	m/s (meters per second)		
onne	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 : °C , °F		
	Air temperature: °C, °F		
Datalogger	Auto 1 second to 3600 seconds		
Sampling Time	@ Sampling time can set to 1 second,		
Setting range	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 $\leq$ 4 GB.		
Advanced	* Set clock time (Year/Month/Date,		
setting	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 $^{\circ}C$ or $^{\circ}F$		
	* Set air flow type ( CFM/USA, CMM/EURO )		
	* Set air flow area dimension		
Temperature	Automatic temp. compensation for the		
Compensation	type K/J thermometer.		
Data Hold	Freeze the display reading.		
Memory Recall			
Sampling Time	Maximum & Minimum value.		
	Approx. 1 second.		
of Display			
Operating	0 to 50 ℃.		
Temperature	d specifications listed in this brochure are subject to c		

#### ELECTRICAL SPECIFICATIONS (23 $\pm$ 5 °C)

#### Air velocity Measurement Range Resolution Accuracy 0.4 to 5.0 m/s ± (5% + a) 0.01 m/s m/s 5.1 to 20.0 m/s 0.1 m/s reading Km/h 1.44 to 18.00 km/h 0.01 Km/h 18.0 to 72.0 km/h 0.1 Km/h or ± (1% + a) Mile/h 0.9 to 11.20 mph 0.01 mph (MPH) 11.2 to 44.7 mph 0.1 mph full scale 0.77 to 9.70 knot 0.01 Knot Knot 9.7 to 38.8 knot 0.1 Knot 79-3940 ft/min 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: km/h - kilometers per hour m/s - meters per second knot - nautical miles per hour (INTERNATIONAL KNOT) ft/min - feet per minute mile/h - miles per hour

#### Air temperature

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

### 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	Resolution	Range	Accuracy
Туре			
Туре К	0.1 °C	-50.0 to 1300.0 °C	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Туре Ј	0.1 °C	-50.0 to 1200.0 °C	± (0.4 % + 0.5 ℃)
		-50.1 to -100.0 °C	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

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