SD card real time data recorder, + type K/J Temp.

Mini vane, Air flow (CMM, CFM)

ANEMOMETER

Model: AM-4233SD

ISO-9001, CE, IEC1010









The Art of Measurement

SD Card real time data recorder, Air flow (CMM, CFM)

Mini vane ANEMOMETER + type K/J Temp.

Operating

Humidity
Data Output

Power Supply

Power Current

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 (°C , °F)		
* 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		

Weight	347 g/ 0.76 LB. * Meter only	
Dimension	Main instrument :	
	177.5 x 68 x 45 mm	
	(7.0 x 2.7 x 1.8 inch)	
	Anemometer sensor probe :	
	Round, 35 mm Dia .	
Accessories	* Instruction manual1 PC	
Included	* Anemometer probe1 PC	
	* Soft carrying case (CA-05B)1 PC	
Optional	* SD Card 1-16G	
Accessories	* Replacement anemometer van set.	
	* Type K thermocouple probes.	
	* AC to DC 9V adapter.	
	* USB cable, USB-01.	
	* RS232 cable, UPCB-02.	

Backlight is OFF): Approx. DC 50 mA

Less than 85% R.H.

adapter is optional).

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.

Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. DC 9V adapter input. (AC/DC power

Normal operation (w/o SD card save

When SD card save the data and LCD

data and LCD Backlight is OFF): Approx. DC 30 mA.

GENERAL SPECIFICATIONS

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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)		
	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.		
Setting range	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	* 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 °C or °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	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display	FF		
Operating	0 to 50 ℃.		
Temperature	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
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ELECTRICAL SPECIFICATIONS (23±5°C)

Air velocity

Measurement	Range	Resolution	Accuracy
m/s	0.4 to 20.0 m/s	0.1 m/s	± (5% + a)
			reading
Km/h	1.4 to 72.0 km/h	0.1 Km/h	
			or
Mile/h	1.0 to 44.7 mph	0.1 mph	± (1% + a)
(MPH)			full scale
Knot	0.8 to 38.8 knot	0.1 knot	
Ft/min	78-3940 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			per hour
mile/h - miles per hour (INTERNAT			ONAL KNOT)

* Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802

mile/h - miles per hour 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

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 °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 ℃	-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)

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