SD Card, real time data recorder
Air velocity, Air flow, Humidity, Dew point, Type K/J Temp.

ANEMOMETER me

metal vane

Model: AM-4247SD *ISO-9001, CE, IEC1010*









The Art of Measurement

SD Card real time data recorder

Humidity/Temp., type K/J Temp., Air flow

ANEMOMETER

Model: AM-4247SD

F	EATURES
*	Two probes are included :
	Anemometer probe and Humidity/Temp. probe.
*	3 in 1 : Anemometer, Humidity/Temp. meter, Type J/K
	thermometer.
*	Metal vane pobe, heavy duty, wide range measurement.
*	Air velocity: m/S, Ft/min, Km/h, Knots, Mile/h,
	Air temperature (°C , °F)
	Air flow : CMM, CFM.
*	Low-friction ball vane wheels make sure high accuracy
	in high & low velocities.
*	Type K, Type J thermocouple thermometer.
*	Air Temp. used thermistor sensor, fast response time.
	Humidity/%RH: 10 to 95 %RH.
	Dew point. Wet bulb Temp
*	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 temperatureetc.

Power Current	Normal operation (w/o SD card save			
	data and LCD Backlight is OFF) :			
	Approx. DC 15 mA.			
	When SD card save the data and LCD			
	Backlight is OFF) :			
	Approx. DC 36 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 head :			
	Round, 72 mm Dia.			
	Humidity Probe :			
	197 mm (7.8 inch) in length.			
Accessories	* Instruction manual1 PC			
Included	* Anemometer probe 1 PC			
	* Humidity probe1 PC			
	* Hard carrying case (CA-06)1 PC			
Optional	SD Card (2 G)			
Accessories	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 $^{\circ}$ C)

Air velocity

Measurement	Range	Resolution	Accuracy
m/S	0.4 - 35.0 m/s	0.1 m/S	± (2%+0.2 m/S)
Km/h	1.4 - 126.0 km/h	0.1 Km/h	± (2%+0.8 Km/h)
mph (Mile/h)	0.9 - 78.3 mph	0.1 mph	± (2%+0.4 mph)
Knots	0.8 - 68.0 knots	0.1 Knots	± (2%+0.4 Knots)
FPM (Ft/min)	79 - 6890 ft/min	1 FPM	+ (2%+40 FPM)

Air temperature

Measuring Range	0 °C to 80 °C/32 °F to 176 °F
Resolution	0.1 °C/0.1 °F
Accuracy	0.8 °C/1.5 °F (< 60 °C)

GENERAL SPECIFICATIONS

Circuit	Custom microprocessor LSI circuit.			
Display	LCD size : 52 mm x 38 mm			
Display				
		n green backlight (ON/OFF).		
Function		neter (Air velocity, Air flow).		
	Humidity/Temp. meter.			
		thermometer.		
Measurement	Air veloc			
Unit		meters per second)		
		(kilometers per hour)		
		n (FPM, feet per minute)		
		(nautical miles per hour)		
	Mile/h	(mph, miles per hour)		
		erature:°C, °F		
	Air flow	: CMM, CFM.		
	Humidity	Humidity/Temp. : %RH/°C or °F.		
	Dew poi	Dew point (Humidity) : °C or °F.		
	Wet bulb (Humidity) : °C or °F.			
	Type K/	Type J thermometer : °C , °F		
Datalogger	Auto 1, 2, 5, 10, 30, 60, 120, 300,			
Sampling Time		600, 1800 3600 second.		
Setting range		@ 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.			
Advanced	* Set clock time (Year/Month/Date,			
setting	Hour/Minute/ Second)			
	* Decimal point of SD card setting			
	* Auto power OFF management			
	* Set beep Sound ON/OFF			
	* Set thermometer type to Type K or Type J			
		nperature unit to °C or °F		
		^ Set temperature unit to C or F		

* Set sampling time SD memory card Format

* meter only Less than 85% R.H.

adapter is optional).

Freeze the display reading.

Maximum & Minimum value Approx. 1 second.

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.

0 to 50 ℃.

Temperature Compensation Data Hold

Memory Recall Sampling Time

of Display Data Output

Operating Temperature Operating

Humidity

* ACV

Power Supply
* Battery Power Supply Automatic temp. compensation for the type K/J thermometer.

Air flow

CMM (m^3/min.) 0 to 63,000 CMM 0.001 to 1 CMM	Measurement	Range	Resolution
CEM (ft \ 2 /min) 0 to 2 224 900 CEM 0 001 to 100 CEM	CMM (m^3/min.)	0 to 63,000 CMM	0.001 to 1 CMM
	CFM (ft^3/min.)	0 to 2,224,900 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

Humidity/ Temperature

	Range	5 % to 95 % R.H.
Humidity	Resolution	0.1 % R.H.
-	Accuracy	≥70% RH:
		± (3% reading + 1% RH).
		< 70% RH :
		± 3% RH.
	Range	0 °C to 50 °C,32 °F to 122 °F.
Temperature	Resolution	0.1 degree
	Accuracy	℃ ± 0.8 ℃.
		°F ± 1.5 °F.

Dew Point (Humidity)

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.1 ℃
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.1 °F.
Domark .		

- **Remark :

 * Dew Point display value is calculated from the Humidity/Temp. measurement automatically.

 * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..

Wet bulb (Humidity)

°C	Range	-21.6 ℃ to 50.0 ℃
	Resolution	0.1 ℃
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.1 °F.

- * Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.
- *The Welt bulb accuracy is sum accuracy value of Humidity & Temperature measurement

Sensor	Resolution	Range	Accuracy
Туре			
Туре К	0.1 ℃	-50.0 to 1300.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (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)
Type J	0.1 ℃	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (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)

PATENT	CHINA: ZL 2008 2 0189918.5 ZL 2008 2	0189917.0	TAIWAN: M 358970 M 359043
	Germany: Nr. 20 2008 016 337.4	JAPAN: 3151214	U.S.A. : Pending

^{*} Appearance and specifications listed in this brochure are subject to change without notice.

*.DC 9V adapter input. (AC/DC power

*.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.