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

ANEMOMETER metal vane

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

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25.0
27.6 ℃
m/S

ANEMOMETER
METAL PROBE

Transcend
SD
4GB

UNIT ▲   FUNCTION ▼

SET   LOG
TIME   ENTER

SD Card Data Logger
ANEMOMETER
Type K/J Thermometer, van, plastic, %RH, CFM / CMM

Lutron   AM-4247SD

SGS   UKAS QUALITY MANAGEMENT 005

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The Art of Measurement

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

metal vane ANEMOMETER
Model : AM-4247SD

FEATURE

* 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 (℃, ℉)
* 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 temperature...etc.

GENERAL SPECIFICATION

Circuit	Custom microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm LCD with green backlight (ON/OFF).
Function	Anemometer (Air velocity, Air flow).
	Humidity/Temp. meter.
	Type J/K thermometer.
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 temperature :℃, ℉
	Air flow : CMM, CFM.
	Humidity/Temp. : %RH/℃ or ℉. Dew point (Humidity) : ℃ or ℉. Wet bulb

	(Humidity) : ℃ or ℉.	
	Type K/ Type J thermometer : ℃ , ℉	
Datalogger Sampling Time Setting range	Auto	1, 2, 5, 10, 30, 60, 120, 300, 600, 1800 3600 second. @ 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 setting	* Set clock time (Year/Month/Date, 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 * Set temperature unit to ℃ or ℉ * Set sampling time * SD memory card Format	
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.	
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 ℃. * meter only	
Operating Humidity	Less than 85% R.H.	
Power Supply * Battery	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.	
Power Supply * ACV	* 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 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 Included	* Instruction manual...........................1 PC * Anemometer probe.......................... 1 PC * Humidity 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 ℃)

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 ℃ to 80 ℃/32 ℉ to 176 ℉
Resolution	0.1 ℃/0.1 ℉
Accuracy	0.8 ℃/1.5 ℉ (< 60 ℃)

Air flow

Measurement	Range	Resolution
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

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

Dew Point (Humidity)

℃	Range	-25.3 ℃ to 48.9 ℃
	Resolution	0.1 ℃
℉	Range	-13.5 ℉ to 120.1 ℉.
	Resolution	0.1 ℉.

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)

℃	Range	-21.6 ℃ to 50.0 ℃
	Resolution	0.1 ℃
℉	Range	-6.9 ℉ to 122.0 ℉.
	Resolution	0.1 ℉.

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

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 °F	± (0.4 % + 1.8 °F)
Type J	0.1 ℃	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 ℃)
		-50.1 to -100.0 ℃	± (0.4 % + 1 ℃)
	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.

AM-4247SD+1109

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