SD Card real time data recorder, + type K/J Temp. Air flow (CMM, CFM)

ANEMOMETER

Model: AM-4307SD *ISO-9001, CE, IEC1010*











The Art of Measurement

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

ANEMOMETER, + type K/J Temp.

Model: AM-4307SD

FE	ATU	RES
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*	* One meter can accept two probes :		
	Anemometer probe , Thermocouple probe.		
*	Air velocity: m/s, Ft/min, Km/h, Knot, Mile/h.		
*	Air flow (CFM, CMM) measurement.		
*	Air temperature ($^{\circ}$ C, $^{\circ}$ F).		
*	Air Temp. used thermistor sensor, fast 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,		
1	Flow hoods, Clean rooms, Air velocity, Air balancing,		
	Fans/motors/blowers, Furnace velocity, Refrigerated case,		
	Paint spray booths . measurements		

GENERAL	SPECI	FICATIONS

GENERAL SPEC			
Circuit	Custom one-chip of microprocessor LSI		
Disalass	circuit. LCD size : 52 mm x 38 mm		
Display			
Measurement	LCD with green backlight (ON/OFF).		
Unit		Air velocity: m/s (meters per second)	
Unit		(kilometers per hour)	
		(FPM, feet per minute)	
		(nautical miles per hour)	
		(mph, miles per hour)	
	Air flow		
	CFM,		
		: cube feet per minute	
		1 : cube meters per minute	
	°C, °F		
	Type K/	Type J thermometer : °C , °F	
D. I. I		erature: °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	
	0.0	1 to 99 position (Location) no.	
Memory Card		ory card. 1 GB to 16 GB.	
	* It reco	ommend use memory card ≤ 4 GB.	
Advanced		ock time (Year/Month/Date,	
setting		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	Anemometer function and the type K/J		
	thermometer.		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display			

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 ℃.	
Less than 85% R.H.	
* 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).	
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.	
347 g/ 0.76 LB. * Meter only	
Main instrument :	
182 x 73 x 47.5 mm	
(7.1 x 2.9 x 1.9 inch)	
Anemometer sensor probe :	
Round, 72 mm Dia .	
* Instruction manual1 PC	
* Anemometer probe1 PC	
* Hard carrying case (CA-06)1 PC	
* SD Card (4 G)	
* Type K thermocouple probes,	
refer to page 27.	
* 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	0.2 to 5.0 m/s	0.01 m/s	± (5% + a)
	5.1 to 25.0 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:			
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 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 ℃/0.1 °F
Accuracy	± 0.8 ℃/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)
change without notice.			1704-AM4307SD

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