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

ANEMOMETER

Model: AM-4237SD *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-4237SD



		ATORES
ľ		Two probes are included :
L		Anemometer probe and Humidity/Temp. probe.
ľ	*	3 in 1 : Anemometer, Humidity/Temp. meter, Type J/K
L		thermometer.
Ŀ		ABS plastic vane pobe, heavy duty.
		Air velocity: m/S, Ft/min, Km/h, Knots, Mile/h,
Ŀ		Air temperature (°C, °F)
Ŀ		Air flow: CMM, CFM.
ľ		Low-friction ball vane wheels make sure high accuracy
L		in high & low velocities.
Ŀ		Type K, Type J thermocouple thermometer.
Ŀ		Air Temp. used thermistor sensor, fast response time.
Ŀ	*	Humidity/%RH: 10 to 95 %RH.
Ŀ		Dew point. Wet bulb Temp
ľ		Real time SD memory card Datalogger, it Built-in Clock
ı		and Calendar, real time data recorder , sampling time set
L		from 1 second to 3600 seconds.
ľ		Manual datalogger is available (set the sampling
ı		time to 0), during execute the manual datalogger
ı		function, it can set the different position (location) No.
L		(position 1 to position 99).
1		Innovation and easy operation, computer is not need
ı		to setup extra software, after execute datalogger, just
ı		take away the SD card from the meter and plug in the
ı		SD card into the computer, it can down load the all the
ı		measured value with the time information (
ı		year/month/date/ hour/minute/second) to the Excel
ı		directly, then user can make the further data or graphic
L		analysis by themselves.
Ŀ		SD card capacity: 1 GB to 16 GB.
Ŀ		LCD with green light backlight, easy reading.
Ŀ		Can default auto power off or manual power off.
Ŀ		Data hold, record max. and min. reading.
Ŀ		Microcomputer circuit, high accuracy.
Ŀ		Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
Ŀ		RS232/USB PC COMPUTER interface.
ľ		Separate probe, easy for operation of different
L		measurement environment.
ľ		Wide applications: use this anemometer to check air
1		conditioning & heating systems, measure air velocities,
1	,	wind temperatureetc.
L		

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		
	* 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 F		Resolution	Accuracy
m/S	0.4 - 25.0 m/s	0.1 m/S	± (2%+0.2 m/S)
Km/h 1.4 - 90.0 km/h		0.1 Km/h	± (2%+0.8 Km/h)
mph (Mile/h)	0.9 - 55.9 mile/h	0.1 mph	± (2%+0.4 mph)
Knots	0.8 - 48.6 knots	0.1 Knots	± (2%+0.4 Knots)
FPM (Ft/min)	80 - 4930 ft/min	1 FPM	± (2%+40 FPM)

Air temperature

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

GENERAL SPECIFICATIONS

FEATURES

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	Air veloc	ity:	
Unit	m/S (meters per second)	
	Km/h	(kilometers per hour)	
	Ft/mir	(FPM, feet per minute)	
	Knots	(nautical miles per hour)	
	Mile/h	(mph, miles per hour)	
	Air temp	erature:°C, °F	
	Air flow	: CMM, CFM.	
	Humidity	y/Temp.:%RH/°C or °F.	
		nt (Humidity) : °C or °F.	
		o (Humidity) : °C or °F.	
		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		
1	* Auto n	ower OFF management	

JEIVENAL	3F LUI	IICAII	OIVS
Circuit		Custom	micror

Display LCD size : 52 mm x 38 mm		: 52 mm x 38 mm			
	LCD with green backlight (ON/OFF).				
Function	Anemometer (Air velocity, Air flow).				
	Humidity/Temp. meter.				
	Type J/K	Type J/K thermometer.			
Measurement	Air veloc				
Unit		meters per second)			
		(kilometers per hour)			
		(FPM, feet per minute)			
		(nautical miles per hour)			
		(mph, miles per hour)			
		erature :°C, °F			
		: CMM, CFM.			
		//Temp.: %RH/°C or °F. nt (Humidity): °C or °F.			
	Wet hulk	o (Humidity) : °C or °F.			
		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		ory card. 1 GB to 16 GB.			
Advanced	* Set clock time (Year/Month/Date,				
setting		Hour/Minute/ Second)			
	l point of SD card setting				
	* Auto power OFF management * Set beep Sound ON/OFF				
		rmometer type to Type K or Type J			
		nperature unit to °C or °F			
	* Set sampling time				
		mory card Format			
Temperature	Automatic temp. compensation for the type				
Compensation	K/J thermometer.				
Data Hold	Freeze the display reading.				
Memory Recall	Maximum & Minimum value.				
Sampling Time	Approx. 1 second.				
of Display					
Data Output		JSB PC computer interface.			
	* Connect the optional RS232 cable				
	UPCB-02 will get the RS232 plug.				
	* Connect the optional USB cable				
0	USB-01 will get the USB plug. 0 to 50 °C.				
Operating Temperature					
Operating	* meter only				
Humidity	LESS IIId	11 00 70 K.H.			
Power Supply	* Alkalir	ne or heavy duty DC 1.5 V battery			
* Battery		, AA) x 6 PCs, or equivalent.			
Sallery	(5,013	, , s. , , s i os, or equivalent.			
Power Supply	*.DC 9V	adapter input. (AC/DC power			
* ACV		er is optional).			

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

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

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 °C to 50.0 °C
	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..

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)

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