HOT WIRE ANEMOMETER

Model: AM-4214SD *ISO-9001, CE, IEC1010*











SD Card real time data logger

HOT WIRE ANEMOMETER, + type K/J Temp.

Model: AM-4214SD

FEATURES

*	Combination of hot wire and standard thermistor,		
	deliver rapid and precise measurements even at low		
	air velocity value.		
*	Slim probe, ideal for grilles & diffusers.		
*	Air velocity: m/s, Ft/min, Km/h, Knot, Mile/h,		
*	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 of different		
L.	measurement environment.		
*	Applications: Environmental testing, Air conveyors,		
	Flow hoods, Clean rooms, Air velocity, Air balancing,		
	Fans/motors/blowers, Furnace velocity, Refrigerated case,		
L	Paint spray booths.		

CENEDAL	SPECIFICATIONS

G: 'I		1: 6 : 101	
Circuit	1	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 (n	neters 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:		
	°C, °F		
	Type K/ Type J thermometer.		
	$^{\circ}$ C, $^{\circ}$ F		
Sensor	Air velocity & Air flow :		
Structure	Tiny glass bead thermistor.		
Structure	Air temperature :		
	Thermistor.		
	Type K, Type J thermometer :		
		K/J thermocouple probe.	
		pes are optional.	
Datalogger	Auto	1 second to 3600 seconds	
Sampling Time	Auto	@ Sampling time can set to 1 second,	
Setting range		, ,	
Setting range	Manual	but memory data may loss.	
	Manuai	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)		
	* 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 °C or °F		
	* Set sampling time		
	* SD mer	mory card Format	
Data Hold Freeze the display reading.			
Dala Holu			

Temperature	Automatic temp. compensation for the		
Compensation	Anemometer function and the type K/J		
	thermometer.		
Sampling Time	Approx. 1 second.		
of Display			
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	0 to 50 ℃.		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
Power Supply	* 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).		
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	515 g/ 1.13 LB.		
Dimension	Main instrument :		
Diffiction	203 x 76 x 38 mm		
	Telescope Probe :		
	1		
	Round, 12 mm Dia x 280 mm (min. length).		
Accessories	Round, 12 mm Dia x 940 mm (max. length). * Instruction manual		
Included			
Included	* Telescope Probe		
Ontional	* Hard carrying case (CA-06)1 PC		
Optional	SD Card (1 G)		
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.		

ELECTRICAL SPECIFICATIONS (23 \pm 5 °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:			
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	(internationa	l knot)

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

Type K/J thermometer

Sensor Type	Resolution	Range	Accuracy
Type K	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 °C	± (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: 31512	4 U.S.A. : Pending

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