HOT WIRE ANEMOMETER

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









The Art of Measurement

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 (°C, °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
Ŀ	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.
Ĺ	Microcomputer circuit, high accuracy.
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
_	N3232/ 03B TO COMITOTER INTERFACE.
*	Separate proper, easy for operation of anterent
*	measurement environment.
	Applications: Environmental testing, Air conveyors,
	Flow hoods, Clean rooms, Air velocity, Air balancing,
	Fans/motors/blowers, Furnace velocity, Refrigerated case,
\Box	Paint spray booths.

GENERAL SPECIFICATIONS

Circuit	Custom	one-chip of microprocessor LSI
Olicuit	circuit.	one criip or microprocessor Est
Display		: 52 mm x 38 mm
Display		
M		green backlight (ON/OFF).
Measurement	Air veloc	,
Unit		neters per second)
	1	(kilometers per hour)
		(FPM, feet per minute)
		(nautical miles per hour)
	Mile/h	(mph, miles per hour)
		perature:
	°C, °F	
	Type K/	Type J thermometer.
	°C, °F	
Sensor	Air veloc	city :
Structure	Tiny q	lass bead thermistor.
		perature :
	Therm	
		Type J thermometer :
	, ,	K/J thermocouple probe.
		bes are optional.
Datalogger	Auto	1 second to 3600 seconds
Sampling Time	riato	@ Sampling time can set to 1 second,
Setting range		but memory data may loss.
Setting range	Manual	Push the data logger button
	Mariaar	once will save data one time.
		@ Set the sampling time to
		0 second.
		@ Manual mode, can also select the
Manaami Cand	CD	1 to 99 position (Location) no.
Memory Card		ory card. 1 GB to 16 GB.
Advanced	l .	ck time (Year/Month/Date,
setting	1	linute/ Second)
		I point of SD card setting
		ower OFF management
		ep Sound ON/OFF
		rmometer type to Type K or Type J
	1	nperature unit to $^\circ\!\mathbb{C}$ or $^\circ\!\mathbb{F}$
	1	npling time
		mory card Format
Data Hold	Freeze tl	ne display reading.
Memory Recall		n & Minimum value.

Temperature	Automatic temp. compensation for the
Compensation	Anemometer function and the type K/J
Compensation	thermometer.
Sampling Time	Approx. 1 second.
of Display	Арргох. 1 Second.
Data Output	RS 232/USB PC computer interface.
Data Output	* Connect the optional RS232 cable
	UPCB-02 will get the RS232 plug.
	* Connect the optional USB cable
	,
Operating	USB-01 will get the USB plug. 0 to 50 °C .
, ,	0 10 50 (.
Temperature	Less than 85% R.H.
Operating	Less than 65% K.H.
Humidity Power Supply	*.Alkaline or heavy duty DC 1.5 V battery
Power Supply	
	(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
Power Current	data and LCD Backlight is OFF):
	3 ,
	Approx. DC 15 mA. When SD card save the data and LCD
	Backlight is OFF) : Approx. DC 36 mA.
Mainlet	
Weight Dimension	515 g/ 1.13 LB. Main instrument:
Dimension	
	203 x 76 x 38 mm
	Telescope Probe :
	Round, 12 mm Dia x 280 mm (min. length).
A	Round, 12 mm Dia x 940 mm (max. length).
Accessories	* Instruction manual
Included	* Telescope Probe
Ontinual	* Hard carrying case (CA-06) 1 PC
Optional	CD Cord 1 1 CC
Accessories	SD Card 1-16G
	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 90.0 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	
@ $a = 0.1 \text{ m/s}, 0$.3 km/h, 0.2 mile/h, 0	.2 knot, 20 ft/i	min
Note:			
m/s - meters per	second km/h -	kilometers per	hour
ft/min - feet per i	minute knot - r	nautical miles	per hour
mile/h - miles per	r hour	(internationa	l knot)

Air temperature

Measuring Range	0 °C to 50 °C/32 °F to 122 °F
Resolution	0.1 ℃/0.1 °F
Accuracy	± 0.8 °C/1.5 °F

Type K/J thermometer

Sensor	Resolution	Range	Accuracy
Туре			
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 ℃	± (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)

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