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

## HOT WIRE ANEMOMETER

Model: AM-14224SD *ISO-9001, CE, IEC1010* 







The Art of Measurement

## **ANEMOMETER**

* Complete set			
	with two probes : Hot wire anemometer	Operating	0 to 50 ℃.
	ımidity/Temp. probe.	Temperature	U 050/ B II
	of hot wire and standard thermistor, and precise measurements even at low	Operating Humidity	Less than 85% R.H.
air velocity va	ilue.	Power Supply	* Alkaline or heavy duty DC 1.5 V battery
	eal for grilles & diffusers.		( UM3, AA ) x 6 PCs, or equivalent.
	m/s, Ft/min, Km/h, Knot, Mile/h, 1, CMM) measurement.	-	* ADC 9V adapter input. ( AC/DC power adapter is optional ).
Air temperatu		Power Current	Normal operation ( w/o SD card save
	d thermistor sensor, fast response time.		data and LCD Backlight is OFF) :
	to 95 %RH, Dew point, Wet bulb.  J thermocouple thermometer.	-	Approx. DC 30 mA. When SD card save the data and LCD
	memory card Datalogger, it Built-in Clock		Backlight is OFF) :
	, real time data recorder , sampling time set_		Approx. DC 50 mA.
	d to 3600 seconds.	Weight Dimension	347 g/ 0.76 LB. * Meter only  Main instrument :
	uring execute the manual datalogger	Difficusion	182 x 73 x 47.5 mm
function, it ca	in set the different position ( location ) No.		(7.1 x 2.9 x 1.9 inch)
	o position 99). Id easy operation, computer is not need	_	Telescope Probe : Round, 12 mm Dia x 280 mm ( min. length ).
	a software, after execute datalogger, just		Round, 12 mm Dia x 200 mm ( max. length ).
	SD card from the meter and plug in the	Accessories	* Instruction manual1 PC
	the computer, it can down load the all the ue with the time information (	Included	* Hot wire telescope probe
	late/ hour/minute/second ) to the Excel		* Hard carrying case1 PC
directly, then	user can make the further data or graphic	Optional	SD Card ( 2 G )
analysis by th	nemselves.	Accessories	Type K thermocouple probe.  AC to DC 9V adapter.
	city: 1 GB to 16 GB. en light backlight, easy reading.	$\dashv$ $\mid$	USB cable, USB-01.
Can default a	uto power off or manual power off.	<b></b>	RS232 cable, UPCB-02.
	cord max. and min. reading.	$\dashv$ $\square$	Data acquisition software, SW-U801-WIN.
	er circuit, high accuracy. B/AA ( 1.5 V ) x 6 batteries or DC 9V adapter.		Excel 'data acquisition software, SW-E802.
	C COMPUTER interface.	ELECTRICAL	SPECIFICATIONS (23±5℃)
Separate prob	e, easy for operation of different		
	t environment.  Environmental testing, Air conveyors,	Air velocity	
	Environmental testing, Air conveyors, Clean rooms, Air velocity, Air balancing,	Measurement	Range Resolution Accuracy
Fans/motors/	blowers, Furnace velocity, Refrigerated case,	m/s	0.2 to 5.0 m/s 0.01 m/s ± (5% + a
Paint spray b	ooths.		5.1 to 25.0 m/s
SENERAL SPE	CIFICATIONS	Km/h	0.70 to 18.00 km/h
Circuit	Custom one-chip of microprocessor LSI	Mile/h	0.50 to 11.20 mph 0.01 mph ± (1% + a
	circuit.	( mph )	11.2 to 44.7 mph
Display	LCD size: 52 mm x 38 mm LCD with green backlight (ON/OFF).	Knot	0.40 to 9.70 knot 0.01 Knot 9.7 to 38.8 knot 0.1 Knot
Function	Anemometer ( Air velocity, Air flow ).	Ft/min	40-3940 ft/min 1 Ft/min
	Humidity/Temp. meter.	@ a = 0.1 m/s, 0.3 km/h, 0.2 mile/h, 0.2 knot, 20 ft/min	
Accourament	Type J/K thermometer.	Note:	
Measurement Unit	Air velocity : m/S (meters per second)	m/s - meters per ft/min - feet per	
	Km/h ( kilometers per hour )	mile/h - miles pe	
	Ft/min ( FPM, feet per minute )		
	Knots ( nautical miles per hour ) Mile/h ( mph, miles per hour )	Air temperati	ure
	Air temperature : °C, °F	Measuring Range	0 °C to 50 °C/32 °F to 122 °F
	Air flow : CMM, CFM.	Resolution	0.1 ℃/0.1 °F
	Humidity/Temp. : $\%RH/^{\circ}C$ or $^{\circ}F$ . Dew point ( Humidity ) : $^{\circ}C$ or $^{\circ}F$ .	Accuracy	± 0.8 °C/1.5 °F
	Wet bulb ( Humidity ) : °C or °F.	Air flow	
	Type K/ Type J thermometer : °C, °F		
Sensor Structure	Air velocity & Air flow :	Measurement	Range Resolution
	<u>Tiny glass bead thermistor.</u> Air temperature :	CFM ( ft^3/min. )	
	Thermistor.		
	Humidity :	Measurement	Area
Datala	Precision capacitance humidity sensor.  Type K, Type J thermometer:	CMM ( m^3/min. CFM ( ft^3/min. )	
	Type K/J thermocouple probe.		, 
	* Probes are optional.	Humidity/ Te	emperature
Datalogger Sampling Time	Auto 1 second to 3600 seconds  @ Sampling time can set to 1 second,		Range 5 % to 95 % R.H.
Setting range	but memory data may loss.	Humidity	Resolution 0.1 % R.H.
-	Manual Push the data logger button		Accuracy ≥70% RH:
	once will save data one time.  @ Set the sampling time to		± (3% reading + 1% RH). < 70% RH :
	0 second.		± 3% RH.
	@ Manual mode, can also select the		Range 0 °C to 50 °C,32 °F to 122 °F.
Moment C	1 to 99 position ( Location ) no.	Temperature	Resolution 0.1 degree Accuracy °C ± 0.8 °C.
Memory Card	SD memory card. 1 GB to 16 GB.  * It recommend use memory card ≤ 4 GB.		Accuracy © ± 0.8 °C. °F ± 1.5 °F.
Advanced	* Set clock time ( Year/Month/Date,	1	
setting	Hour/Minute/ Second )	Dew Point ( I	lumidity)
	* Set sampling time  * Auto power OFF management	r <sub>C</sub>	Range -25.3 °C to 48.9 °C
	* Set beep Sound ON/OFF		Resolution 0.1 °C
	* Decimal point of SD card setting	°F	Range -13.5 °F to 120.1 °F.
	* SD memory card Format	Dom ==!:	Resolution 0.1 °F.
	* Set thermometer type to Type K or Type J  * Set temperature unit to °C or °F	Remark : * Dew Point di	lisplay value is calculated from the
	* Set air flow type ( CFM/USA, CMM/EURO )	Humidity/Temp. measurement automatically.	
	* Set air flow area dimension	* The Dew Point accuracy is sum accuracy value of	
emperature	Automatic temp. compensation for the	Humidity & 1	Temperature measurement
Compensation	Anemometer function and the type K/J thermometer.	Wet bulb ( Hi	umidity.)
Data Hold	Freeze the display reading.	(Met build ( Hi	unity )
Memory Recall	Maximum & Minimum value.	°C	Range -21.6 °C to 50.0 °C
	Approx. 1 second.	°F	Resolution 0.1 °C Range -6.9 °F to 122.0 °F.
Sampling Time			PART LAU TO 100 M T
Sampling Time of Display	RS 232/USB PC computer interface		
Sampling Time of Display Data Output	RS 232/USB PC computer interface.  * Connect the optional RS232 cable	Remark :	Resolution 0.1 °F.
Sampling Time of Display	* Connect the optional RS232 cable UPCB-02 will get the RS232 plug.	Remark :  * Wet bulb dis	Resolution 0.1 °F. splay value is calculated from the
Sampling Time of Display	* Connect the optional RS232 cable	Remark :  * Wet bulb dis Humidity/Ter	Resolution 0.1 °F.

PATENT CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 TAIWAN: M 3589' 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. PATENT TAIWAN : M 358970 M 359043