SD card real time data recorder, + type K/J Temp.

Mini vane, Air flow (CMM, CFM)

ANEMOMETER

Model: AM-4233SD

ISO-9001, CE, IEC1010











The Art of Measurement

Mini vane ANEMOMETER + type K/J Temp.

Operating

Humidity
Data Output

Model: AM-4233SD

FEATURES

*	Mini vane with 35mm Dia., lowfriction ball bearing mounted		
	wheel design provides high accuracy at high and low air		
	velocity.		
*	Telescope probe, extension length 620 mm max.		
	Replacement anemometer van set.		
	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.		
	Fast humidity measuring 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		
H	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 on or manual power on.		
*	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,		
	Flow hoods, Clean rooms, Air velocity, Air balancing,		
	Fans/motors/blowers, Furnace velocity, Refrigerated case,		
	Paint spray booths . measurements		
*	Separate probe, easy for operation. Applications: Environmental testing, HVAC, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case,		

	UPCB-02 will get the RS232 plug.
	* Connect the optional USB cable
	USB-01 will get the USB plug.
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 30 mA.
	When SD card save the data and LCD
	Backlight is OFF) :
	Approx. DC 50 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 probe :
	Round, 35 mm Dia .
Accessories	* Instruction manual1 PC
Included	* Anemometer probe1 PC
	* Soft carrying case (CA-05B)1 PC
Optional	* SD Card (4 G).
Accessories	* Replacement anemometer van set.
	* Type K thermocouple probes.
	* 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

Less than 85% R.H.

RS 232/USB PC computer interface.

* Connect the optional RS232 cable

GENERAL SPECIFICATIONS

OLIVEINAL SI LO	II IOATIONS		
Circuit	Custom 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 (meters 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 flow :		
	CFM, CMM		
	* CFM : cube feet per minute		
	* CFM : cube meters per minute		
	Type K/ Type J thermometer : °C , °F		
Detelemen	Air temperature: °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		
	1 to 99 position (Location) no.		
Memory Card	SD memory card. 1 GB to 16 GB.		
	* It recommend use memory card ≤ 4 GB.		
Advanced	* Set clock time (Year/Month/Date,		
setting	Hour/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	type K/J thermometer.		
Data Hold	Freeze the display reading.		
Memory Recall			
Sampling Time			
of Display	1''		
Operating	0 to 50 ℃.		
Temperature			

ELECTRICAL SPECIFICATIONS (23±5°C)

Air velocity

Measurement Range

0.4 to 20.0 m/s	0.1 m/s	± (5% + a) reading	
1.4 to 72.0 km/h	0.1 Km/h		
		or	
1.0 to 44.7 mph	0.1 mph	± (1% + a)	
·	,	full scale	
0.8 to 38.8 knot	0.1 knot		
78-3940 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 (INTERNATIONAL KNOT)			
	1.4 to 72.0 km/h 1.0 to 44.7 mph 0.8 to 38.8 knot 78-3940 ft/min 0.3 km/h, 0.2 mile/h er second km/h - r minute knot -	1.4 to 72.0 km/h	

Resolution

Accuracy

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	± (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)