SD Card real time data recorder, Oxygen Oxygen in air

O2 METER +Humidity/Temp.

Model: O2H-9903SD *ISO-9001, CE, IEC1010*







O2 probe Humidity/Temp. probe





The Art of Measurement

SD Card real time recorder

O2 METER + Humidity/Temp.

Model: 02H-9903SD

FEATURES

	*	Real time recorder, save the data into the SD memory			
		card and can be down load to the Excel, extra software			
		is no need. User can make the further data or graphic			
		analysis by themselves. under the Excel software.			
	*	At the same time, the SD memory card can record 2			
		probe's data (%RH/Temp. and O2) along with the			
		time information into the one Excel file at the same time.			
	*	Manual datalogger is available, during execute the			
		manual datalogger function, it can set the different			
		location no. (position 1 to position 99).			
	*	Air quality measurement application, multi-function:,			
		O2 (Oxygen in air), Humidity, temperature			
		measurement.			
	*	O2 range: 0 to 30.0 % x 0.1 %.			
	*				
	*	* Dew point Temp. and Wet bulb Temp. measurement.			
	* Temp. range : 0 to 50.0 °C, °C/°F.				
	*	* O2 sensor : Galvanic cell type.			
- 1		Humidity sensor: Precision capacitance sensor			
	*	Alarm setting with the beeper sound output.			
	*	Sampling time for data recorder is 2 seconds to 8 hours.			
	* Complete set with 2 probes :				
		O2/Temp. probe, Humidity/Temp. probe, main meter			
		and the hard carrying case.			
	*	Separate probe, easy for remote measurement.			
Ī	*	Meter can cooperate with 2 GB to 16 GB SD card, SD			
		card is optional.			
	*	RS232/USB computer interface.			
	*	Patented.			

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GENERAL	SPECIF	ICATIONS

<u> </u>	011 10/11		
Circuit	Custom one-chip of microprocessor LSI		
D' I	circuit.		
Display	LCD size: 52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Measurement	O2 (Oxygen in air)		
	Humidity		
	Dew point Temp., Wet bulb Temp.		
	Temperature		
Sensor	Humidity	Precision capacitance sensor	
structure	02	Galvanic cell type	
	Temp.	Precision thermistor	
Datalogger	Auto	2 sec to 8 hour 59 min. 59 sec.	
Sampling Time		@ Sampling time can set to 1 second,	
Setting range		, ,	
Setting range	Manual	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.	
Data error no.	0.1% of	total saved data max.	
Memory Card	SD memo	ory card. 1 GB to 16 GB.	
Advanced	* SD memory card Format		
setting	* Set clock time		
	* Set sampling time		
@ main setting	* Auto power OFF management		
	* Set beep Sound ON/OFF		
		I point of SD card setting	
	* Temp. unit setting		
D. I. H.H.	* Alarm value setting		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value. Approx. 1 second.		
Sampling Time of Display	Approx.	I second.	
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	Humidity	Normal operation (w/o SD card save	
	measure-	data and LCD Backlight is OFF) :	
	ment	Approx. DC 10.5 mA.	
	IIICIII	When SD card save the data and LCD	
		Backlight is OFF) :	
		9 ,	
		Approx. DC 40 mA.	
	02	Normal operation (w/o SD card save	
	measure-	data and LCD Backlight is OFF):	
	ment	Approx. DC 12.5 mA.	
		When SD card save the data and LCD	
		Backlight is OFF) :	
	L	Approx. DC 42.5 mA.	
	* If LCD backlight on, the power		
consumption will increase approx.			

Data Output	RS 232/US	232/USB PC computer interface.		
	* Connect the optional RS232 cable			
	UPCB-02	UPCB-02 will get the RS232 plug.		
	* Connect	* Connect the optional USB cable		
	USB-01 will get the USB plug.			
Operating	0 to 50 ℃.	(32 to 122 $^{\circ}\mathrm{F}$).		
Temperature				
Operating	Less than 80% R.H.			
Humidity				
Weight	350 g/0.77 LB.			
Dimension	Meter	177 x 68 x 45 mm		
	Humidity	197 mm in length.		
	probe			
	O2 probe	150 x 38 x 38 mm		
Accessories	Instruction manual1 PC			
Included	Hard carrying case, CA-081 PC			
	Humidity probe 1 PC			
	O2 probe 1 PC			
Optional	* SD memory card (2 GB)			
Accessories	* AC to DC 9V adapter.			
	* USB cable, USB-01.			
	* RS232 cable, UPCB-02.			
* Data Acquisition sof		uisition software, SW-U801-WIN.		
* EXCEL Data Acquisition softwar		ta Acquisition software, SW-E802		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

O2 (Air oxygen)

	Range	0 to 30 %O2.
02	Resolution	0.1 %02.
* Air oxygen	Accuracy	± (1 % reading + 0.2 % O2).
		@ After calibration
	Response time	≤ 15 secon(@ t 90
	Overload	100 %02.
	protection	
	Environment	0.9 to 1.1 atmosphere.
	pressure range	
	Expected life	≥2 years.
	time	
	Alarm	If the measurement Air oxygen
		value < 18.0 %O2, the buzzer
		will sound for warning.
Temperature	Range	0 ℃ to 50 ℃,32 °F to 122 °F.
	Resolution	0.1 degree
	Accuracy	°C: ± 0.8 °C °F: ± 1.5 °F.

Humidity/Temperature

	Range	5 % to 95 % R.H.
Humidity	Resolution	0.1 % R.H.
	Accuracy	≥70% RH:
		± (3% reading + 1% RH).
		< 70% RH :
		± 3% RH.
	Range	0 °C to 50 °C,32 °F to 122 °F.
Temperature	Resolution	0.1 degree
	Accuracy	°C ± 0.8 °C.
	_	°F ± 1.5 °F.

Dew Point Temp. (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 Temp. (Humidity)

$^{\circ}\! \mathbb{C}$	Range	-21.6 ℃ to 50.0 ℃
	Resolution	0.1 ℃
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.1 °F.

Remark :

- * Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.
- * The Welt bulb accuracy is sum accuracy value of Humidity & Temperature measurement..

12 mA.

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