SD Card real time data recorder, Oxygen Oxygen in air O2 METER +Humidity/Temp.

Model: 02H-9903SD

ISO-9001, CE, IEC1010







The Art of Measurement

SD Card real time recorder O2 METER + Humidity/Temp. Model : 02H-9903SD

FEATURES

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*	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
L	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 %.
*	Humidity range: 10 to 95 %RH.
*	Dew point Temp. and Wet bulb Temp. measurement.
*	Temp. range : 0 to 50.0 °C , °C /°F.
*	O2 sensor : Galvanic cell type.
*	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.
*	Meter can cooperate with 2 GB to 16 GB SD card, SD
	card is optional.
*	RS232/USB computer interface.
*	Patented.

GENERAL SPECIFICATIONS

GENERAL SPE	CIFICAL	IONS
Circuit	Custom o	one-chip of microprocessor LSI
Display		: 52 mm x 38 mm
Display		green backlight (ON/OFF).
Measurement		gen in air)
	Humidity	
	Dew poir	nt Temp., Wet bulb Temp.
	Tempera	
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		but memory data may loss.
0 0	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 mem	ory card. 1 GB to 16 GB.
Advanced		nory card Format
setting	* Set cloc	k time
		npling time
@ main setting		ower OFF management
		p Sound ON/OFF I point of SD card setting
		unit setting
		alue setting
Data Hold		ne display reading.
Memory Recall		n & Minimum value.
Sampling Time of Display	Approx.	1 second.
Power Supply	* Alkalin	e or heavy duty DC 1.5 V battery
		AA) x 6 PCs, or equivalent.
	* ADC 9V	adapter input. (AC/DC power
		er 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.
		When SD card save the data and LCD
		Backlight is OFF) :
		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) :
		Approx. DC 42.5 mA.
	* Af LCD	backlight on, the power
		nption will increase approx.
	12 mA	
*		The listed in this brachure are subject to cha

Data Output	RS 232/11S	B PC computer interface.
		the optional RS232 cable
		will get the RS232 plug.
		the optional USB cable
		vill get the USB plug.
Operating		(32 to 122 °F).
Operating	0.00000	(32 10 122 F).
Temperature	Less than 8	2004 D H
Operating	Less than a	30% R.H.
Humidity	250 - 10 77	1.0
Weight	350 g/0.77	
Dimension	Meter	177 x 68 x 45 mm
	Humidity	197 mm in length.
	probe	
	O2 probe	150 x 38 x 38 mm
Accessories	Instruction	manual 1 PC
Included	Hard carry	ing case, CA-061 PC
	Humidity p	robe 1 PC
	O2 probe	1 PC
Optional	* SD memo	ry card (4 GB)
Accessories	* AC to DC	9V adapter.
	* USB cable	e, USB-01.
	* RS232 cal	ole, UPCB-02.
	* Data Acqu	isition software, SW-U801-WIN.
	* EXCEL Da	ta Acquisition software, SW-E802

ELECTRICAL SPECIFICATIONS (23±5°C)

O2 (Air oxygen)

	Range	0 to 30 %O2.
02	Resolution	0.1 %02.
* Air oxygen	Accuracy	± (0.7 % O2).
		@ After calibration
	Response time	\leq 15 second@ t 90
	Overload	100 %O2.
	protection	
	Environment	0.9 to 1.1 atmosphere.
	pressure range	
	Expected life	≥2 years.
	time	
	Alarm	If the measurement Air oxygen
		value < 18.0 %02, 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 ℃ to 50 ℃,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 ℃ to 48.9 ℃
	Resolution	0.1 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.1 °F.
emark :		
* Dew Point	t display value is	s calculated from the
Humidity/	Temp. measure	ement automatically.
2		is sum accuracy value of Humidity
	ature measurer	, , ,
a remper	ature measurer	nent
ατεπιρεί	ature measurer	nent
	Temp. (Hum	
Vet bulb	Temp. (Hum	idity)
Vet bulb	Temp. (Hum Range	idity) -21.6 ℃ to 50.0 ℃
vet bulb [∙] ℃	Temp. (Hum Range Resolution	idity) -21.6 ℃ to 50.0 ℃ 0.1 ℃

* Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.

* The Welt bulb accuracy is sum accuracy value of Humidity & Temperature measurement..

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