### SD Card real time data recorder Carbon monoxide

# CO METER + Humidity/Temp.

Model: COH-9902SD *ISO-9001, CE, IEC1010* 



CO probe Humidity/Temp. probe





The Art of Measurement

#### SD card real time recorder

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#### **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 two
	probe's data ( %RH/CO/Temp. ) 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:
	CO ( Carbon monoxide ),
	Humidity, temperature measurement.
*	CO range: 0 to 1,000 ppm x 1 ppm.
*	Humidity range: 10 to 95 %RH.
*	Trainiaity range: 10 to 75 76km.
*	Dew point Temp. and Wet bulb Temp. measurement.  Temp. range: 0 to 50.0 °C, °C/°F.
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* * *	Dew point Temp. and Wet bulb Temp. measurement.  Temp. range: 0 to 50.0 °C, °C/°F.  CO 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.
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#### **GENERAL SPECIFICATIONS**

\* Patented.

GENERAL SPE			
Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display		: 52 mm x 38 mm	
		green backlight ( ON/OFF ).	
Measurement		bon monoxide )	
	Humidity	1	
	Dew point Temp., Wet bulb Temp.		
	Temperature		
Sensor	Humidity Precision capacitance sensor		
structure	CO	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.	
	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		ory card. 1 GB to 16 GB.	
Advanced		nory card Format	
setting	* Set cloc		
		npling time	
		power OFF management	
		p Sound ON/OFF	
	* Decimal point of SD card setting		
		unit setting	
Data Hali	* Alarm value setting		
Data Hold	Freeze the display reading.		
Memory Recall		n & Minimum value.	
Power Supply	* Alkaline or heavy duty DC 1.5 V battery		
		, AA) x 6 PCs, or equivalent.	
		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.	
	СО	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.	
	* Aftch	backlight on, the power	
	consumption will increase approx.		
	12 mA.		
	12 11114	•	

Sampling Time of Display	Approx. 1 s	econd.	
Data Output	RS 232/USB PC computer interface.  * Connect the optional RS232 cable UPCB-02 will get the RS232 plug.  * Connect the optional USB cable USB-01 will get the USB plug.		
Operating	0 to 50 °C. ( 32 to 122 °F ).		
Temperature			
Operating	Less than 80% R.H.		
Humidity			
Weight	350 g/0.77		
Dimension	Meter	177 x 68 x 45 mm	
	Humidity	197 mm in length.	
	probe		
	CO probe	150 x 38 x 38 mm	
Accessories	Instruction manual		
Included	Hard carrying case, CA-06 1 PC		
	Humidity pr	robe1 PC	
	CO probe 1 PC		
Optional	SD memory card ( 4 GB )		
Accessories AC to DC 9V adapter.		V adapter.	
	USB cable, USB-01.		
	RS232 cable, UPCB-02.		
Data Acquisitio		sition software, SW-U801-WIN.	
	Excel data Acquisition software, SW-E802		

#### ELECTRICAL SPECIFICATIONS (23±5 ℃)

#### CO (Carbon dioxide)

	Range	0 to 1,000 ppm
co	Resolution	1 ppm
* Carbon	Accuracy	± (5% + 2 ppm)
monoxide	Response	< 30 seconds
	time *	
	Repeatability	< 2%
	Zero drift in	< 5 ppm
	long term	
	Sensitivity	< 5% per year
	drift	·
	* The respons	e time value is specified to reach
	the 90% reading value.	
Temperature	Range	0 °C to 50 °C,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 )

$^{\circ}\!\mathbb{C}$	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 )

°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...

<sup>\*</sup> Appearance and specifications listed in this brochure are subject to change without notice.