SD Card real time data recorder Carbon monoxide

CO METER + Humidity/Temp.

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









The Art of Measurement

SD card real time recorder

CO METER + Humidity/Temp.

Model: COH-9902SD

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.
* 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.
* Complete set with 2 probes :
CO/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.

GENERAL SPECIFICATIONS

* Patented.

RS232/USB computer interface.

Circuit	Custom one-chip of microprocessor LSI		
Circuit	circuit.		
Display	LCD size : 52 mm x 38 mm		
Display			
Management	LCD with green backlight (ON/OFF).		
Measurement	CO (Carbon monoxide)		
	Humidity 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	
		· · · · · · · · · · · · · · · · · · ·	
Data	0.10/ -6	1 to 99 position (Location) no.	
Data error no.		total saved data max.	
Memory Card		ory card. 1 GB to 16 GB.	
Advanced setting	* Set cloc	nory card Format	
setting		npling time	
@ main setting		ower OFF management	
C main setting		p Sound ON/OFF	
		I point of SD card setting	
		unit setting	
		ralue setting	
Data Hold	Freeze th	ne display reading.	
Memory Recall	Maximun	n & Minimum value.	
Power Supply	*.Alkalin	e 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	
l ower ourrent	measure-	data and LCD Backlight is OFF) :	
	ment	Approx. DC 10.5 mA.	
	ment	When SD card save the data and LCD	
		Backlight is OFF) :	
	00	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.	
	* . If LCD	backlight on, the power	
		mption will increase approx.	
	12 mA.		

	Approx. 1 second.		
of Display			
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 w	vill get the USB plug.	
Operating	0 to 50 ℃. (32 to 122 °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		
		150 x 38 x 38 mm	
Accessories		manual1 PC	
Included	Hard carrying case, CA-081 PC		
	Humidity probe1 PC		
	CO probe		
Optional	SD memory card (2 GB)		
Accessories	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.		

ELECTRICAL SPECIFICATIONS (23±5 ℃)

CO (Carbon dioxide)

	Range	0 to 1,000 ppm
СО	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	se time value is specified to reach
	the 90% rea	ading value.
Temperature	Range	0 ℃ to 50 ℃,32 ℉ to 122 ℉.
	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 °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 °C to 50.0 °C
	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..

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