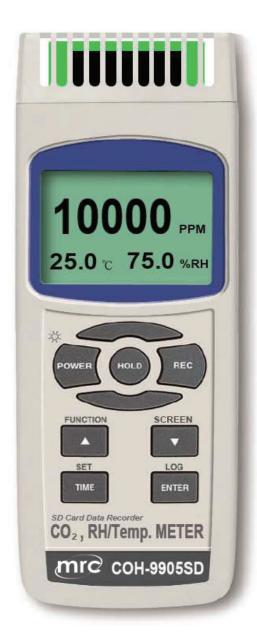
SD card real time recorder, all in one

# CO2 METER + Humidity/Temp.

Model: COH-9905SD *ISO-9001, CE, IEC1010* 







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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 3 function
data ( CO2/Temp. , %RH/Temp. /Dew /Wet) 3 group analog data
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:
CO2 (Carbon dioxide ), Humidity, temperature measurement.
CO2 range : 0 to 10,000 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.
CO2 sensor : NDIR, long term reliability.
Humidity sensor : Precision capacitance sensor
Alarm setting with the beeper sound output.
Sampling time for data recorder is 2 seconds to 3600 seconds.
Meter can cooperate with 2 GB to 16 GB SD card, SD
card is optional.
RS232/USB computer interface.
Patented.

# General Specifications

Circuit	Custom and this of missenses and Cl			
Circuit	I	Custom one-chip of microprocessor LSI		
Display		circuit.		
Display		LCD size : 52 mm x 38 mm (Dot Matrix)		
Measurement	LCD with green backlight ( ON/OFF ).			
Measurement	CO2 (Carbon dioxide )			
	Humidity	Town Mot hulb Town		
		Гетр., Wet bulb Temp.		
0	Temperatui			
Sensor	CO2	NDIR * Nondispersive infrared sensor		
structure	Humidity	Precision capacitance sensor		
	Temp.	Precision thermistor		
Datalogger	Auto	2 sec to 3600 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		y card. 1 GB to 16 GB.		
Data Hold		Freeze the display reading.		
Memory Recall		Maximum & Minimum value.		
Sampling Time of Display	Approx. 1 s	Approx. 1 second.		
Data Output	RS 232/US	B PC computer interface.		
	* Connect	the optional RS232 cable		
	UPCB-02	UPCB-02 will get the RS232 plug.  * Connect the optional USB cable		
	I			
	I	will get the USB plug.		
Power Supply	wer 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 ).			
l ower ouppry				
Power Current	CO2 /Humidity Normal operation ( w/o SD card save			
I OWEI CUITEIIL	measure-	data and LCD Backlight is OFF) :		
	ment	Approx. DC 80 mA.		
	Inen	When SD card save the data and LCD		
		Backlight is OFF):		
Ap		Approx. DC 110 mA.		
		* If LCD backlight on, the power		
	consumption will increase approx.			
	5 mA.			

Operating	0 to 50 °C. ( 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	
Accessories	Instruction manual		
Included	Hard carrying case, CA-08 1 PC		
Optional	SD memory card ( 4 GB )		
Accessories	AC to DC 9V adapter.		
	USB cable, USB-01.		
	RS232 cable, UPCB-02.		
	Data Acquisition software, SW-U801-WIN.		

Electrical Specifications (23±5  $^{\circ}$ C)

### CO2 ( Carbon dioxide )

	Range	0 to 10,000 ppm
CO2	Resolution	1 ppm
( Carbon	Accuracy	±40 ppm
dioxide)		* <u>≤</u> 1,000 ppm.
		±(50ppm +3% of reading)
23 ± 5 °C.		* > 1,000 ppm ≤ 3,000 ppm.
		±(50ppm +5% of reading) typically
		* > 3,000 ppm ≤ 10,000 ppm.,
	Repeatability	± 20 ppm * ≤ 3,000 ppm.
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 9	5 % R.H.
Humidity	Resolution	0.1 % R.H.	
	Accuracy	≧70% R	H:
		±(3%	v reading + 1% RH).
		< 70% F	RH:
		±3	8% RH.
	Range	0 °C to 5	60 °C,32 °F to 122 °F.
Temperature	Resolution	0.1 degree	
	Accuracy	℃	±0.8 ℃.
		°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 °C
°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..
- @ Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.