SD Card real time data recorder Carbon dioxide

CO2 METER + Humidity/Temp.

Model: CO2-9904SD *ISO-9001, CE, IEC1010*



CO2 probe Humidity/Temp. probe



The Art of Measurement

SD Card real time recorder, 6000 ppm

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Model: CO2-9904SD

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 three
	kind data (%RH/CO2/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: CO2
	(Carbon dioxide), Humidity, temperature measurement.
*	CO2 range: 0 to 6,000 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 8 hours.
*	Complete set with 2 probes : CO2/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.

GENIERAL	SPECIFI	CATIONS

GENERAL SPEC				
Circuit	Custom one-chip of microprocessor LSI			
Diaminu	circuit. LCD size: 52 mm x 38 mm			
Display				
		LCD with green backlight (ON/OFF).		
Measurement	,	CO2 (Carbon dioxide)		
	Humidity			
	Dew point	t Temp., Wet bulb Temp.		
	Temperat			
Sensor	CO2	NDIR * Nondispersive infrared sensor		
structure	Humidity	Precision capacitance sensor		
	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 to	0.1% of total saved data max.		
Memory Card	SD memory card. 1 GB to 16 GB.			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display Data Output RS 232/USB PC computer interface.				
Data Output	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable			
	USB-01 will get the USB plug.			
Power Supply * Alkaline or heavy duty DC 1.5 V ba				
		(UM3, AA) x 6 PCs, or equivalent.		
* (D) 9V adapter input (AC/D)		adapter input. (AC/DC power		
	adapter is optional).			
		Normal operation (w/o SD card save		
	measure-	data and LCD Backlight is OFF) :		
	ment	Approx. DC 136.5 mA.		
	ment	When SD card save the data and LCD		
		Backlight is OFF) :		
		1 ,		
	Llumidity	Approx. DC 166 mA.		
	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. * Af LCD backlight on, the power consumption will increase approx. 12 mA.			

Advanced	* SD memory card Format			
setting	* Set clock time			
	* Set sampling time			
@ main setting	* Auto power OFF management			
	* Set beep Sou	* Set beep Sound ON/OFF		
	* Decimal point of SD card setting			
	* Temp. unit setting			
	* Alarm value setting			
Operating	9			
Temperature				
Operating	Less than 80°	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			
	CO2 probe	190 x 38 x 28 mm		
Accessories	Instruction manual 1 PC			
Included	Hard carrying case, CA-061 PC			
CO2 probe		1 PC		
	Humidity probe1 PC			
Optional	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℃)

CO2 (Carbon dioxide)

	Range	0 to 6,000 ppm
CO2	Resolution	1 ppm
(Carbon	Accuracy	± 40 ppm
dioxide)		* ≤1,000 ppm.
		± 5% of reading
23 ± 5 ℃.		* > 1,000 ppm \leq 3,000 ppm.
		± 250 ppm typically
		* > 3,000 ppm, reference only
	Repeatability	± 20 ppm * ≤ 3,000 ppm.
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 ℃ to 48.9 ℃
	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...

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