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 CO2 METER + Humidity/Temp.

Model : CO2-9904SD

FEATURES

4	FLATORES				
1	*	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.			
F	*	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).			
F	*	Air quality measurement application, multi-function : CO2			
		(Carbon dioxide), Humidity, temperature measurement.			
[*	CO2 range : 0 to 6,000 ppm x 1 ppm.			
ŀ	*	Humidity range: 10 to 95 %RH.			
1	*	Dew point Temp. and Wet bulb Temp. measurement.			
1	*	Temp. range : 0 to 50.0 °C, °C/°F.			
Ŀ	*	CO2 sensor : NDIR, long term reliability.			
1	*				
Ľ	*	Alarm setting with the beeper sound output.			
Ľ	*	Sampling time for data recorder is 2 seconds to 8 hours.			
ŀ	*	Complete set with 2 probes : CO2/Temp. probe,			
		Humidity/Temp. probe, main meter and the hard			
L		carrying case.			
Ľ	*	Separate probe, easy for remote measurement.			
ŀ	*	Meter can cooperate with 2 GB to 16 GB SD card, SD			
L		card is optional.			
Ŀ	*	RS232/USB computer interface.			

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*	RS232/USB	com	puter	inter
*	Patented.			

TIORION	GENERAL SPECIFICATIONS			
Custom one-chip of microprocessor LSI				
circuit.				
LCD size : 5	2 mm x 38 mm			
LCD with green backlight (ON/OFF).				
CO2 (Carbon dioxide)				
Dew point Temp., Wet bulb Temp.				
+ · · ·	NDIR * Nondispersive infrared sensor			
	Precision capacitance sensor			
	Precision thermistor			
	2 sec to 8 hour 59 min. 59 sec.			
, luto	@ Sampling time can set to 1 second,			
	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.			
0.1% of tot				
	card. 1 GB to 16 GB.			
Freeze the display reading. Maximum & Minimum value.				
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.				
* Alkaline or heavy duty DC 1.5 V battery				
(UM3, AA) x 6 PCs, or equivalent.				
* ADC 9V adapter input. (AC/DC power				
CO2	Normal operation (w/o SD card save			
measure-	data and LCD Backlight is OFF) :			
ment	Approx. DC 136.5 mA.			
	When SD card save the data and LCD			
	Backlight is OFF) :			
	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.				
	Custom one circuit. LCD size : 5 LCD with gr CO2 (Carbo Humidity Dew point 1 Temperatur CO2 Humidity Temp. Auto Manual 0.1% of tot SD memory Freeze the of Maximum & Approx. 1 s RS 232/USE * Connect ti UVCB-02 v * Connect ti USB-01 w * Alkaline c (UM3, Av * ADC 9V ad adapter is CO2 measure- ment * Af LCD ba			

Advanced	* SD memory	y card Format		
setting	* Set clock time			
setting		* Set sampling time		
@ main actting	* Auto power OFF management			
@ main setting		-		
		ound ON/OFF		
		* Decimal point of SD card setting		
	* Temp. unit			
	* Alarm value			
Operating	0 to 50 °C. (0 to 50 ℃. (32 to 122 °F).		
Temperature				
Operating	Less than 80	0% 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 probe1 PC		
	Humidity pr	Humidity probe1 PC		
Optional	SD memory card (4 GB).			
Accessories	AC to DC 9V adapter.			
	USB cable, l			
		RS232 cable, UPCB-02.		
		Data Acquisition software, SW-U801-WIN.		
	Duta Acquis			

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 ≦ 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	$^{\circ}C$: ± 0.8 $^{\circ}C$ $^{\circ}F$: ± 1.5 $^{\circ}F$.

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 °C
°F	Range	-13.5 °F to 120.1 °F.
	Resolution	0.1 °F.
Remark ·		

kemark :

* 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 °C
°F	Range	-6.9 °F to 122.0 °F.
	Resolution	0.1 °F.
Remark ·		

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.