+ Humidity/Temp., SD Card real time data recorder

CO2METER one probe

Model : CO2-9914SD

ISO-9001, CE, IEC1010





SD Card real time data recorder + *Humidity/Temp., one probe*

CO2 METER

Model : CO2-9914

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 `1
	probe 4 Function data (CO2/Temp., %RH/Temp. /Dew /Wet)
	two 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/Dew/Wet , temperature
	measurement.
*	CO2 range : 0 to 10,000 ppm x 1 ppm.
*	Humidity range: 10 to 95 %RH. x 0.1 % 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 1 probes :
	CO2/Temp., 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.

GENERAL	SPECIFICATIONS	

GENERAL SPEC			
Circuit	Custom on	e-chip of microprocessor LSI	
	circuit.	-	
Display		52 mm x 38 mm (Dot Matrix)	
		reen backlight (ON/OFF).	
Measurement		on dioxide)	
incusure ment	Humidity		
		Temp., Wet bulb Temp.	
	Temperatu		
Sensor	CO2	NDIR * Nondispersive infrared sensor	
structure	Humidity	Precision capacitance sensor	
Structure	Temp.	Precision thermistor	
Datalogger	Auto	2 sec to 8 hour 59 min. 59 sec.	
	Auto		
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.		tal saved data max.	
Memory Card	SD memor	y card. 1 GB to 16 GB.	
Advanced	* SD mem	ory card Format	
setting	* Set clock time		
@ main setting	* Set sam	pling time	
	* Auto pov	wer OFF management	
	* Set been	Sound ON/OFF	
		point of SD card setting	
		nit setting	
		alue setting	
		value setting	
Data Hold		display reading.	
Memory Recall		& Minimum value.	
Sampling Time	Approx. 1		
of Display	hippion. I	Second.	
Data Output	PS 232/119	B PC computer interface.	
		the optional RS232 cable	
		2 will get the RS232 plug.	
		the optional USB cable	
Dower Supply		will get the USB plug.	
Power Supply	* Alkaline or heavy duty DC 1.5 V battery		
	(UM3, A	A) x 6 PCs, or equivalent.	
		dapter input. (AC/DC power	
		is optional).	
Operating	0 to 50 ℃.	(32 to 122 °F).	
Temperature			
Operating	Less than	80% R.H.	
Humidity			
Power Current	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	

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.	
	O2 or	Normal operation (w/o SD card save	
	CO	data and LCD Backlight is OFF) :	
	measure-	Approx. DC 12.5 mA.	
	ment	When SD card save the data and LCD	
		Backlight is OFF) :	
		Approx. DC 42.5 mA.	
@ If LC		acklight on, the power consumption	
	will increase approx. 12 mA.		
Weight	350 g/0.77	LB.	
Dimension	Meter	177 x 68 x 45 mm	
	CO2/Humid probe	lity length 175 mm x § 28	
Accessories	Instruction	manual1 PC	
Included	Hard carrying case, CA-081 PC		
	CO2 / Humidity probe1 PC		
Optional	SD memory	card (4 GB)	
Accessories	AC to DC 9V adapter.		
	USB cable, USB-01. RS232 cable, UPCB-02.		
	Data Acquis	sition software, SW-U801-WIN.	

ELECTRICAL SPECIFICATIONS (23±5°C)

CO2 (Carbon dioxide)

	Range	0 to 10,000 ppm
CO2	Resolution	1 ppm
(Carbon	Accuracy	± 40 ppm
dioxide)	-	* ≦1,000 ppm.
		± (50 ppm + 3% of reading)
23 ± 5 ℃.		* > 1,000 ppm \leq 3,000 ppm.
		± (50 ppm + 5% of reading)
		* > 3,000 ppm, reference only
	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 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	℃ ± 0.8 ℃.
		°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 Poi	nt display value is o	alculated from the		
Humidity/Temp. measurement automatically.				
* The Dew Point accuracy is sum accuracy value of Humidity				
& Temperature measurement				
Wet bulb 1	emp. (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 :				
	o display value is ca	Iculated from the Humidity/Temp.		

measurement automatically. * The Welt bulb accuracy is sum accuracy value of Humidity

& Temperature measurement..