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

CO2METER one probe

Model : CO2-9914SD

ISO-9001, CE, IEC1010





LUTRON ELECTRONIC *The Art of Measurement*

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 ℃, ℃/°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.
<u> </u>	

GENERAL	SPECIFICATIONS	

GENERAL SPEC			
Circuit	Custom on	e-chip of microprocessor LSI	
	circuit.		
Display	LCD size :	52 mm x 38 mm (Dot Matrix)	
		reen backlight (ON/OFF).	
Measurement	CO2 (Carbon dioxide)		
	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	Manual	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 beep Sound ON/OFF		
	* Decimal point of SD card setting		
	* Temp. unit setting		
	* Alarm value setting		
		value setting	
Data Hold		display reading.	
Memory Recall		& Minimum value.	
Sampling Time	Approx. 1		
of Display	Appiox. 1	second.	
Data Output	DS 222/115	B PC computer interface.	
		the optional RS232 cable	
		2 will get the RS232 plug.	
		the optional USB cable	
Davisa Curali		will get the USB plug.	
Power Supply		or heavy duty DC 1.5 V battery	
		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 8	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 measure-		ormal operation (w/o SD card save ata and LCD Backlight is OFF) :
		ua	
	ment		Approx. DC 10.5 mA.
		1	hen SD card save the data and LCD
		Ba	acklight is OFF) :
			Approx. DC 40 mA.
	O2 or		ormal operation (w/o SD card save
	CO	da	ata and LCD Backlight is OFF) :
	measure-		Approx. DC 12.5 mA.
	ment	W	hen SD card save the data and LCE
		Ba	acklight is OFF) :
			Approx. DC 42.5 mA.
	@ If LCD ba	acklig	ht on, the power consumption
	will increa	ase a	approx. 12 mA.
Weight	350 g/0.77	LB.	
Dimension	Meter		177 x 68 x 45 mm
	CO2/Humid	ity	length 175 mm x § 28
	probe		
Accessories	Instruction	man	ual1 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.		

ELECTRICAL SPECIFICATIONS (23±5°C)

CO2 (Carbon dioxide)

	Damas	0 to 10 000 mmm
	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 ≦ 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 °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 :		
* Dew Poi	nt display value is o	calculated from the
Humidity	/Temp. measurem	ent automatically.
* The Dev	Point accuracy is	sum accuracy value of Humidity
& Temp	erature measureme	nt.
Vet bulb 1	emp. (Humidity)	
°C	Range	-21.6 ℃ to 50.0 ℃
°C	Range Resolution	-21.6 ℃ to 50.0 ℃ 0.1 ℃
°C		
Ũ	Resolution	0.1 °C
°F	Resolution Range	0.1 ℃ -6.9 °F to 122.0 °F.
°F Remark :	Resolution Range Resolution	0.1 ℃ -6.9 °F to 122.0 °F.

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

& Temperature measurement..

Approx. DC 166 mA.
Appearance and specifications listed in this brochure are subject to change without notice.