

AIR QUALITY METER

Model: AQ-9912SD *ISO-9001, CE, IEC1010*







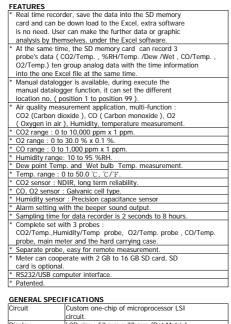


LUTRON ELECTRONI

SD Card real time data recorder CO2, CO, O2, Humidity, Dew point, Temp., 6 in 1

AIR QUALITY METER

Model: AQ-9912SD



LCD size : 52 mm x 38 mm (Dot Matrix)

LCD with green backlight (ON/OFF)
CO2 (Carbon dioxide)
CO (Carbon monoxide)
O2 (Oxygen in air)

Humidity Dew point Temp., Wet bulb Temp.

0.1% of total saved data max.

SD memory card. 1 GB to 16 GB

* SD memory card Format

* Set sampling time

* Auto power OFF management

* Set beep Sound ON/OFF

* Decimal point of SD card setting

Set clock time

* Temp. unit setting

* Alarm value setting

* Altitude value setting

Freeze the display reading

Maximum & Minimum value Approx. 1 second.

adapter is optional).

measure

Humidity ment

O2 or

Less than 80% R.H. 350 g/0.77 LB

co

RS 232/USB PC computer interface Connect the optional RS232 cable

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.

DC 9V adapter input. (AC/DC power adapter is optional)

Backlight is OFF)

Backlight is OFF) :
Approx. DC 40 mA

Approx. DC 42.5 mA @ If LCD backlight on, the power consumption will increase approx. 12 mA.

0 to 50 ℃. (32 to 122 °F).

Normal operation (w/o SD card save data and LCD Backlight is OFF) :
Approx. DC 136.5 mA.
When SD card save the data and LCD

Approx. DC 166 mA.
Normal operation (w/o SD card save data and LCD Backlight is OFF) :
Approx. DC 10.5 mA.

When SD card save the data and LCD

Normal operation (w/o SD card save

Approx. DC 12.5 mA.
When SD card save the data and LCD
Backlight is OFF):

data and LCD Backlight is OFF) :

Temp

Manual

Humidity Precision capacitance sensor

O2 Galvanic cell type

CO Galvanic cell type

Precision thermisto

Dew point recognition.
Temperature

[CO2 | NDIR * Nondispersive infrared sensor

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.

2 sec to 8 hour 59 min. 59 sec.

@ Sampling time can set to 1 second,
but memory data may loss.

Circuit

Display

Sensor

structure

Datalogger Sampling Time Setting range

Data error no. Memory Card Advanced setting

@ main setting

Data Hold

Memory Recall Sampling Time

of Display Data Output

Power Supply

Power Current

Operating Temperature Operating Humidity Weight

Measurement

Dimension	Meter	177 x 68 x 45 mm	
	CO2/Humidity	length 175 mm x § 28	
	probe		
	O2 probe	150 x 38 x 38 mm	
	CO probe	150 x 38 x 38 mm	
Accessories	Instruction ma	nual 1 PC	
Included	Hard carrying case, CA-081 PC		
	CO2 / Humidity probe1 PC		
	O2 probe 1 PC		
	CO probe	1 PC	
Optional	SD memory card (4 GB)		
Accessories AC to DC 9V adapter.		dapter.	
	USB cable, USB-01.		
	RS232 cable, UPCB-02.		
	Data Acquisition software, SW-U801-WIN.		

ELECTRICAL SPECIFICATIONS (23±5°C)

:02 (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 °C.		* > 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.

CO (Carbon dioxide)

	Range	0 to 1,000 ppm
CO	Resolution	1 ppm
* Carbon	Accuracy	± (5% + 2 ppm)
monoxide	Response	< 30 seconds
	time *	
	Sensitivity	< 5% per year
	drift	
	* The response	time value is specified to reach
the 90% reading value.		ding value.

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.

O2 (Air oxygen)

		='
	Range	0 to 30 %O2.
02	Resolution	0.1 %02.
* Air oxygen	Accuracy	± (1 % reading + 0.2 % O2).
		@ After calibration
	Response time	≤ 15 secor @ t 90
	Overload	100 %02.
	protection	
	Environment	0.9 to 1.1 atmosphere.
	pressure range	·
	Expected life	≥2 years.
	time	
	Alarm	If the measurement Air oxygen
		value is < 18.0 %O2, the buzzer
		will sound for warning.

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 de	gree
	Accuracy	°C	± 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 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.
Daniel and		

* Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.

* The Welt bulb accuracy is sum accuracy value of Humidity





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