

CO2 + Humidity/Temp., one probe

CO₂ METER one probe

Model : CO2-9913

ISO-9001, CE, IEC1010



CO₂/Humidity/
Temp. probe



LUTRON ELECTRONIC

The Art of Measurement

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

CO2 METER

Model : CO2-9913

FEATURES

* Air quality measurement application, multi-function : CO2 (Carbon dioxide), Humidity/Dew/Wet , temperature measurement.
* CO2 range : 0 to 12,000 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.
* 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.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	
Display	LCD size : 52 mm x 38 mm (Dot Matrix) LCD with green backlight (ON/OFF).	
Measurement	CO2 (Carbon dioxide) Humidity Dew point Temp., Wet bulb Temp. Temperature	
Sensor structure	CO2	NDIR * Nondispersive infrared sensor
	Humidity	Precision capacitance sensor
	Temp.	Precision thermistor
Advanced setting @ main setting	* Auto power OFF management * Set beep Sound ON/OFF * Temp. unit setting * Alarm value setting	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Sampling Time of Display	Approx. 1 second.	
Data Output	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.	
Power Supply	* 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).	
Operating Temperature	0 to 50 °C. (32 to 122 °F).	
Operating Humidity	Less than 80% R.H.	
Power Current	CO2 measurement	Normal operation (LCD Backlight is OFF) : Approx. DC 136.5 mA.
	Humidity measurement	Normal operation (LCD Backlight is OFF) : Approx. DC 10.5 mA. <i>@ If LCD backlight on, the power consumption will increase approx. 12 mA.</i>
Weight	350 g/0.77 LB.	
Dimension	Meter	177 x 68 x 45 mm
	CO2/Humidity probe	length 175 mm x ϕ 28

Accessories Included	Instruction manual..... 1 PC Hard carrying case, CA-06.....1 PC CO2 / Humidity probe.....1 PC
Optional Accessories	AC to DC 9V adapter. USB cable, USB-01. RS232 cable, UPCB-02. Data Acquisition software, SW-U801-WIN.

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

CO2 (Carbon dioxide)

CO2 (Carbon dioxide) 23 ± 5 °C.	Range	0 to 10,000 ppm
	Resolution	1 ppm
	Accuracy	± 40 ppm * ≤ 1,000 ppm.
		± (50 ppm + 3% of reading) * > 1,000 ppm ≤ 3,000 ppm.
		± (50 ppm + 5% of reading) * > 3,000 ppm
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

Humidity	Range	5 % to 95 % R.H.
	Resolution	0.1 % R.H.
	Accuracy	≥ 70% RH : ± (3% reading + 1% RH).
< 70% RH : ± 3% RH.		

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.		

Dew Point Temp. (Humidity)

°C	Range	-25.3 °C to 48.9 °C
	Resolution	0.1 °C
°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 °C to 50.0 °C
	Resolution	0.1 °C
°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 Wet bulb accuracy is sum accuracy value of Humidity & Temperature measurement..

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

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