

*Carbon dioxide + Temperature , NDIR*

# CO<sub>2</sub> METER

Model : GC-2028

*ISO-9001, CE, IEC1010*



**LUTRON ELECTRONIC**

***The Art of Measurement***

# + Temperature CO<sub>2</sub> METER

## Model : GC-2028

### FEATURES

* NDIR method principal for CO <sub>2</sub> ( Carbon dioxide ) measurement, available for long term operation.
* High repeatability and high accuracy.
* Separate probe, easy operation and convenient for remote measurement.
* CO <sub>2</sub> function with alarm setting.
* Large S-TN LCD, high contrast, easy readout.
* Data hold function for freezing the desired value on display.
* Records Maximum and Minimum readings with Recall.
* RS232/USB computer interface.
* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
* Heavy duty & compact housing with hard carrying case, designed for easy carry out & operation.
* Auto shut off is available to save battery life.
* Power supply from batteries or DC 9V adapter in.

### GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm dual function LCD display.
Measurement	CO <sub>2</sub> ( Carbon dioxide ), Temp.
Unit	ppm
Response Time	< 2 min. typically. @ Reach the 63% reading value @ Depend the environment air circulation.
CO <sub>2</sub> altitude compensation setting	0 to 9,000 meters.
Temperature Compensation	Automatic temp. compensation.
Advanced setting	CO <sub>2</sub> altitude value setting
	CO <sub>2</sub> alarm value setting
	°C/°F setting
	Auto power off enable/disable setting
Alarm setting	For CO <sub>2</sub> measurement only.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Display Sampling Time	Approx. 1 second.
Power off	Auto shut off saves battery life or manual off by push button.

Data Output	RS 232/USB PC serial 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.
Operating Temperature	0 to 50 °C.
Operating Humidity	Main instrument : Less than 85% R.H.
	CO <sub>2</sub> probe : Less than 85% R.H.
Power Supply	* DC 1.5 V battery ( UM3, AA ) x 6 PCs, or equivalent. * DC 9V adapter input.
Power Current	Approx. DC 9.6 mA for 90% period. Approx. DC 128 mA for 10% period.
Weight	Main instrument : 372 g/0.82 LB. @ Battery is included.
	CO <sub>2</sub> probe : 158 g/0.35 LB.
Dimension	Main instrument : 173 x 68 x 42 mm (7.9 x 2.7x 1.2 inch)
	CO <sub>2</sub> Probe : 185 x 38 x 26 mm
Accessories Included	Instruction manual.....1 PC CO <sub>2</sub> probe.....1 PC Hard Carrying case..... 1 PC
Optional Accessories	RS232 cable UPCB-02, USB cable USB-01, DC 9V adapter input, Data Acquisition software, SW-U801-WIN

### ELECTRICAL SPECIFICATIONS (23± 5 °C)

#### CO<sub>2</sub> ( Carbon dioxide )

CO <sub>2</sub> ( Carbon dioxide )  23 + 5 °C .	Range	0 to 4,000 ppm
	Resolution	1 ppm
	Accuracy	± 40 ppm * ≤ 1,000 ppm.
		± 5% of reading * > 1,000 ppm ≤ 3,000 ppm.
		± 250 ppm typically * > 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.