

Carbon dioxide + Temperature

CO₂ METER

Model : GC-2028

ISO-9001, CE, IEC1010



The Art of Measurement



LUTRON ELECTRONIC



CO₂ METER

Model : GC-2028

FEATURES

* NDIR method principal for CO ₂ (Carbon dioxide) measurement, available for long term operation.
* High repeatability and high accuracy.
* Separate probe, easy operation and convenient for remote measurement.
* CO ₂ 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 Unit	CO ₂ (Carbon dioxide), Temp. ppm
Response Time	< 2 min. typically. @ Reach the 63% reading value @ Depend the environment air circulation.
CO ₂ altitude compensation setting	0 to 9,000 meters.
Temperature Compensation	Automatic temp. compensation.
Advanced setting	CO ₂ altitude value setting CO ₂ alarm value setting °C/°C setting Auto power off enable/disable setting
Alarm setting	For CO ₂ 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 ₂ probe : Less than 85% R.H.
Power Supply	DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.
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 ₂ probe : 158 g/0.35 LB.
Dimension	Main instrument : 173 x 68 x 42 mm (7.9 x 2.7x 1.2 inch) CO ₂ Probe : 185 x 38 x 26 mm
Accessories Included	Instruction manual.....1 PC CO ₂ probe.....1 PC Hard Carrying case..... 1 PC
Optional Accessories	RS232 cable, UPCB-02 USB cable, USB-01 Data Acquisition software, SW-U801-WIN

ELECTRICAL SPECIFICATIONS (23± 5 °C)

CO₂ (Carbon dioxide)

CO ₂ (Carbon dioxide)	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.
23 + 5 °C.	Range	0 °C to 50 °C / 32 °C to 122 °C
	Resolution	0.1 degree
	Accuracy	°C - 0.8 °C °C - 1.5 °C.
Temperature	Range	0 °C to 50 °C / 32 °C to 122 °C
	Resolution	0.1 degree
	Accuracy	°C - 0.8 °C °C - 1.5 °C.

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

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