

Carbon dioxide + Temperature , NDIR

CO 2 METER

Model : GC-2028

ISO-9001, CE, IEC1010

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The Art of Measurement

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FEATURE

- * NDIR method principal for CO₂ (Carbon dioxide) measurement, available for long term operation.
- * High repeatability and high accuracy.
- * Separate probe, easy operation and convenient for remote measurement.
- * CO₂ 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 SPECIFICATION

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm dual function LCD display.
Measurement	CO ₂ (Carbon dioxide), Temp.
Unit	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/°F 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.

	CO2 probe : 158 g/0.35 LB.
Dimension	Main instrument : 173 x 68 x 42 mm(7.9 x 2.7x 1.2 inch)
	CO2 Probe :185 x 38 x 26 mm
Accessories Included	Instruction manual.....1 PC CO2 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)

CO2(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.

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

GC-2028+0807

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