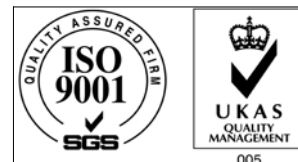*Carbon dioxide*

CO₂ METER

Model : GC-2028

Your purchase of this CO2 METER MONITOR marks a step forward for you into the field of precision measurement. Although this CO2 METER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.

1. FEATURES

* 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.
* Can set the altitude compensation value with default.
* 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.

2. SPECIFICATIONS

2-1 General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm dual function LCD display.
Measurement	CO2 (Carbon dioxide), Temp.

Unit	CO2	ppm
	Temp.	℃, ℉
Response Time	*CO2 :*	
	< 2 min. typically.	
	* Reach the 63% reading value	
	* Depend the environment air	
	circulation.	
CO2 altitude compensation setting	0 to 9,000 meters.	
Temperature Compensation	Automatic temp. compensation.	
Advanced setting	Auto power off enable/disable setting	
	℃/℉ setting	
	CO2 alarm value setting	
	CO2 altitude value setting	
Alarm Function	Setting for CO2 measurement value.	
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 ℃.
Operating Humidity	Less than 85% R.H.
Power Supply	DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent.
Power Current	CO_2 measurement *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