Carbon dioxide, Humidity, Temp., NDIR, 0 to 4,000 ppm, RS232

CO 2 METER

Model : GCH-2018

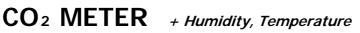








The Art of Measurement



Model : GCH-2018

FEATURES

*	NDIR method principal for CO2 (Carbon dioxide)
	measurement, available for long term operation.
*	High repeatability and high accuracy.
*	Two probes, one is for CO2/Temp. measurement, the
	other probe is for Humidity/Temp./Dew point
	measurement.
*	Separate probe, easy operation and convenient
	for remote measurement.
*	CO2 function with alarm setting.
*	Humidity measurement with fast response time.
*	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

GENERAL SPEC			
Circuit	Custom one-chip of microprocessor LSI circuit.		
Display	LCD size : 52 m	m x 38 mm	
Display	dual function L		
		D display.	
Measurement	CO2 (Carbon dioxide), Temp.		
	Humidity, Dew point, Temp.		
Unit		pm	
		S RH	
	Dew point °C	2, °F	
	Temp. °C	C, °F	
Response Time	CO2 :		
	< 2 min. typically.		
	@ Reach the 63% reading value		
	@ Depend the	environment air	
	circulation.		
	Humidity/Dew	ooint :	
	10 to 30 second		
		5% reading value	
		environment air	
	circulation.		
CO2 altitude	0 to 9,000 meters.		
compensation			
•			
setting	Automatia toma	approaction	
	mperature Automatic temp. compensation.		
Compensation			
Adavanced	CO2 altitude va		
setting	CO2 alarrm valu	le setting	
	°C/°F setting		
		enable/disable setting	
Alarm setting	For CO2 measurement only.		
Data Hold	Freeze the disp	ay reading.	
Memory Recall	Maximum & Mir	nimum value.	
Display	Approx. 1 secor	nd.	
Sampling Time			
Power off		ves battery life or	
	manual off by p	ush button.	
Data Output		serial interface.	
	* Connect the o	ptional RS232 cable	
	UPCB-02 will g	net the RS232 plug.	
		ptional USB cable	
		et the USB plug.	
Probes no.	Two probes :		
	* Probe 1 is for CO2, Temp. measurement.		
		Humidity, Dew point.	
	Temp. measur		
Operating	0 to 50 ℃.	omont.	
Temperature	0.0000		
remperature			

Operating	Main instrument : Less than 85% R.H.	
Humidity	C02 probe : Less than 85% R.H.	
	Humidity probe : 0 to 95 %RH.	
Power Supply	DC 1.5 V battery (UM3, AA) x 6 PCs,	
	or equivalent.	
Power Current	CO2 measurement	
	Approx. DC 9.6 mA for 90% period.	
	Approx. DC 128 mA for 10% period.	
	Humidity measurement	
	Approx. DC 5.6 mA.	
Weight	Main instrument : 372 g/0.82 LB.	
	@ Battery is included.	
	CO2 probe : 158 g/0.35 LB.	
	Humidity probe : 82 g/0.18 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	
	Humidity Sensor Probe :	
	200 x 23 x 19 mm	
Accessories	Instruction manual1 PC	
Included	CO2 probe1 PC	
	Humidity probe1 PC	
	Hard Carrying case 1 PC	
Optional	ACV to DC 9V adapter	
Accessories	RS232 cable, UPCB-02	
	USB cable, USB-01	
	Data Acquisition software, SW-U801-WIN	

ELECTRICAL SPECIFICATIONS (23±5°C)

CO2 (Carbon dioxide)

	Range	0 to 4,000 ppm
CO2	Resolution	1 ppm
(Carbon	Accuracy	± 40 ppm
dioxide)		* <i>≦1,000 ppm.</i>
		± 5% of reading
		* > 1,000 ppm ≦ 3,000 ppm.
		± 250 ppm typically
23 + 5 °C.		* > 3,000 ppm, reference only
	Repeatability	± 20 ppm
		* <i>≦ 3,000 ppm.</i>
	Range	0 ℃ to 50 ℃,32 °F to 122 °F.
Temperature	Resolution	0.1 degree
	Accuracy	°C - 0.8 °C, °F - 1.5 °F.

Humidity/ Temp./Dew point

Humidity/ Temperature

	Range	10 % to 95 % R.H.
Humidity	Resolution	0.1 % R.H.
	Accuracy	≧70% RH :
		± (3% reading + 1% RH).
		< 70% RH :
		± 3% RH.
	Range	0 °C to 50 °C,32 °F to 122 °F.
Temperature	Resolution	0.1 degree
	Accuracy	°C - 0.8 °C, °F - 1.5 °F.

Dew Point

°C	Range	-25.3 ℃ to 48.9 ℃			
	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					

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