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

CO 2 METER

Model : GCH-2018









The Art of Measurement

CO₂ METER



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	Custom one-chip of microprocessor LSI		
	circuit.			
Display	LCD size : 5	2 mm x 38 mm		
	dual function	n LCD display.		
Measurement		n dioxide), Temp.		
		ew point, Temp.		
Unit	CO2	ppm		
Onit	Humidity			
		% RH		
	Dew point	°C, °F °C, °F		
	Temp.	C, F		
Response Time	CO2 :			
	< 2 min. typ			
		ne 63% reading value		
	@ Depend	the environment air		
	circulatio	on.		
	Humidity/De	ew point :		
		conds typically.		
		ne 85% reading value		
		the environment air		
	circulatio			
CO2 altitude	0 to 9,000 n			
	0 10 9,000 1	neters.		
compensation				
setting				
Temperature	Automatic te	emp. compensation.		
Compensation				
Adavanced	CO2 altitude value setting			
setting		CO2 alarrm value setting		
	°C /°F setting			
	Auto power off enable/disable setting			
Alarm setting	For CO2 me	asurement only.		
Data Hold	Freeze the c	lisplay reading.		
Memory Recall		Minimum value.		
Display	Approx. 1 se			
Sampling Time				
Power off	Auto shut of	f saves battery life or		
		by push button.		
Data Output		PC serial interface.		
Data Output				
		he optional RS232 cable		
		will get the RS232 plug.		
		he optional USB cable		
		ill get the USB plug.		
Probes no.	Two probes	:		
		for CO2, Temp. measurement.		
	* Probe 2 is	for Humidity, Dew point.		
		asurement.		
Operating	0 to 50 ℃.			
Temperature				

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 manual 1 PC		
Included	CO2 probe1 PC		
	Humidity probe1 PC		
	Hard Carrying case1 PC		
Optional	RS232 cable, UPCB-02		
Accessories	USB cable, USB-01		
	Data Acquisition software, SW-U801-WIN		

ELECTRICAL SPECIFICATIONS (23±5℃)

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 °C to 50 °C,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	\geq 70% RH :
	-	± (3% reading + 1% RH).
		< 70% RH :
		± 3% RH.
	Range	0 ℃ to 50 ℃,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 ℃	
°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.