CO₂ METER

Model: GCH-2018

ISO-9001, CE, IEC1010







The Art of Measurement

CO₂ METER + Humidity, Temperature 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.
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GENERAL SPECIFICATIONS

GENERAL SPEC				
Circuit		-chip of microprocessor LSI		
Diamin.	circuit.	2 20		
Display	LCD size : 52 mm x 38 mm			
		n LCD display.		
Measurement		n dioxide), Temp.		
	Humidity, Dew point, Temp.			
Unit	CO2	ppm		
	Humidity	% RH		
	Dew point	°C, °F		
	Temp.	°C, °F		
Response Time	CO2 :			
	< 2 min. typically.			
	@ Reach the 63% reading value			
		the environment air		
	circulation			
	Humidity/Dew point :			
		onds typically.		
		ne 85% reading value		
		the environment air		
	circulation.			
CO2 altitude	0 to 9,000 meters.			
compensation	0 10 7,000 11	0 to 9,000 meters.		
setting				
Temperature	Automatic to	omn componention		
Compensation	Automatic temp. compensation.			
Adavanced	CO2 altitude value setting			
	CO2 alarrm value setting			
setting				
	°C/°F setting			
Alama a	Auto power off enable/disable setting			
Alarm setting	For CO2 measurement only.			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Display	Approx. 1 se	econd.		
Sampling Time	ļ			
Power off	Auto shut off saves battery life or			
	manual off by push button.			
Data Output		PC serial interface.		
		ne optional RS232 cable		
		vill get the RS232 plug.		
	* Connect th	ne optional USB cable		
	USB-01 wi	ll get the USB plug.		
Probes no.	Two probes :			
	* Probe 1 is	for CO2, Temp. measurement.		
		for Humidity, Dew point.		
		asurement.		
Operating	0 to 50 ℃.	-		
Temperature				
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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 probe 1 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 \pm 5 °C)

CO2 (Carbon dioxide)

	Range	0 to 4,000 ppm
CO2	Resolution	1 ppm
(Carbon	Accuracy	± 40 ppm
dioxide)		* ≤1,000 ppm.
		± 5% of reading
		* > 1,000 ppm \leq 3,000 ppm.
		± 250 ppm typically
23 + 5 ℃.		* > 3,000 ppm, reference only
	Repeatability	± 20 ppm
		* ≤ 3,000 ppm.
	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.
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.
Resolution	0.1 degree
Accuracy	°C - 0.8 °C, °F - 1.5 °F.
	Resolution Accuracy Range Resolution

Dew Point

℃		Range	-25.3 °C to 48.9 °C		
		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 & Tomporature measurement					

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