carbon dioxide + Humidity, Temp. 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 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

Circuit	Custom one	-chip of microprocessor LSI	
	circuit.		
Display		2 mm x 38 mm	
Display	LCD size : 52 mm x 38 mm dual function LCD display.		
Measurement		n dioxide), Temp.	
measurement			
Unit	Humidity, Dew point, Temp.		
Unit		ppm	
	Humidity	% RH	
	Dew point	°C, °F	
Deenerge Time	Temp.	°C , °F	
Response Time	<i>CO2 :</i>		
	< 2 min. typ		
		ne 63% reading value	
		the environment air	
	circulatio		
	Humidity/De		
		onds typically.	
	@ Reach th	ne 85% reading value	
Temperature	Automatic te	emp. compensation.	
Compensation			
Adavanced	CO2 altitude value setting		
setting		value setting	
5	°C/°F setting		
		off enable/disable setting	
Alarm setting		asurement only.	
Data Hold	Freeze the display 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		erial interface.	
Probes no.	Two probes		
110003110.		for CO2, Temp. measurement.	
		for Humidity, Dew point.	
		5 .	
Operating		asurement.	
Operating	0 to 50 ℃.		
Temperature			
Operating	Main instrument : Less than 85% R.H.		
Humidity		Less than 85% R.H.	
	Humidity pro	bbe : 0 to 95 %RH.	
Power Supply		ttery(UM4, AAA)x 6 PCs,	
	or equivalen	t	

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 : 312 g/0.68 LB.		
0	@ 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°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
		* ≦ 3,000 ppm.
	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 :	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.