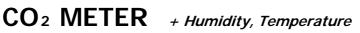
Carbon dioxide, Humidity, Temp., NDIR, 0 to 4,000 ppm, RS232

# CO 2 METER

## Model : GCH-2018

## *ISO-9001, CE, IEC1010*





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.
4	Device events from bottorice or DC OV edeptor in

\* Power supply from batteries or DC 9V adapter in.

#### **GENERAL SPECIFICATIONS**

Circuit Custom one-chip of microprocess		
dual function LCD display.		
CO2 ( Carbon dioxide ), Temp.		
	w point, Temp.	
	ppm	
	% RH	
Dew point	°C, °F ℃, °F	
Temp.	°C , °F	
CO2 :		
< 2 min. typically.		
@ Reach the 63% reading value		
@ Depend t	the environment air	
circulatio		
Humidity/Dew point :		
10 to 30 seco	onds typically.	
@ Reach the	e 85% reading value	
@ Depend t	he environment air	
circulatio	n.	
0 to 9,000 meters.		
mperature Automatic temp. compensation.		
CO2 altitude	value setting	
CO2 alarrm value setting		
Auto power of	off enable/disable setting	
Alarm setting For CO2 measurement only		
Freeze the di	isplay reading.	
	Minimum value.	
Approx. 1 second.		
Auto shut off	f saves battery life or	
	y push button.	
	PC serial interface.	
* Connect th	e optional RS232 cable	
UPCB-02 will get the RS232 plug.		
	e optional USB cable	
	get the USB plug.	
Two probes		
	for CO2, Temp. measurement.	
11000 1131	or coz, remp. measurement.	
* Proho 2 ic i	for Humidity Dew noint	
	for Humidity, Dew point.	
* Probe 2 is i <u>Temp. mea</u> 0 to 50 ℃.		
	CO2 ( Carbon Humidity, De CO2 Humidity Dew point Temp. CO2 : < 2 min. typ @ Reach th @ Depend t circulatio Humidity/De 10 to 30 sect @ Reach th @ Depend t circulatio 0 to 9,000 m Automatic te CO2 altitude CO2 altitude CO3 alti	

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	pries 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.