

carbon dioxide + Humidity, Temp.

CO₂ METER

Model : GCH-2018



ISO-9001, CE, IEC1010

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Tehran, Tehransar



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The Art of Measurement

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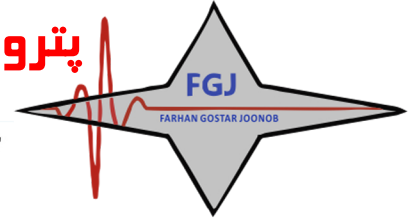
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CO₂ METER + Humidity, Temperature

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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.

Power Current	CO ₂ 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. <i>@ Battery is included.</i> CO ₂ 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) CO ₂ Probe : 185 x 38 x 26 mm Humidity Sensor Probe : 200 x 23 x 19 mm
Accessories Included	Instruction manual..... 1 PC CO ₂ probe..... 1 PC Humidity probe..... 1 PC Hard Carrying case..... 1 PC
Optional Accessories	RS232 cable, UPCB-02 USB cable, USB-01 Data Acquisition software, SW-U801-WIN

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm dual function LCD display.
Measurement	CO ₂ (Carbon dioxide), Temp. Humidity, Dew point, Temp.
Unit	CO ₂ ppm Humidity % RH Dew point °C, °F Temp. °C, °F
Response Time	CO ₂ : < 2 min. typically. <i>@ Reach the 63% reading value</i> <i>@ Depend the environment air circulation.</i> Humidity/Dew point : 10 to 30 seconds typically. <i>@ Reach the 85% reading value</i>
Temperature Compensation	Automatic temp. compensation.
Advanced setting	CO ₂ altitude value setting CO ₂ alarm value setting °C/°F setting Auto power off enable/disable setting
Alarm setting	For CO ₂ measurement only.
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Display Sampling Time	Approx. 1 second.
Power off	Auto shut off saves battery life or manual off by push button.
Data Output	RS 232 PC serial interface.
Probes no.	Two probes : * Probe 1 is for CO ₂ , Temp. measurement. * Probe 2 is for Humidity, Dew point. Temp. measurement.
Operating Temperature	0 to 50 °C .
Operating Humidity	Main instrument : Less than 85% R.H. CO ₂ probe : Less than 85% R.H. Humidity probe : 0 to 95 %RH.
Power Supply	DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent.

ELECTRICAL SPECIFICATIONS (23±5 °C)

CO₂ (Carbon dioxide)

CO ₂ (Carbon dioxide)	Range	0 to 4,000 ppm
	Resolution	1 ppm
23 + 5 °C .	Accuracy	± 40 ppm * ≤ 1,000 ppm. ± 5% of reading * > 1,000 ppm ≤ 3,000 ppm. ± 250 ppm typically * > 3,000 ppm, reference only
	Repeatability	± 20 ppm * ≤ 3,000 ppm.
	Temperature	Range 0 °C to 50 °C, 32 °F to 122 °F. Resolution 0.1 degree Accuracy °C - 0.8 °C, °F - 1.5 °F.

Humidity/ Temp./Dew point

Humidity/ Temperature

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

Dew Point

°C	Range	-25.3 °C to 48.9 °C
	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.

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