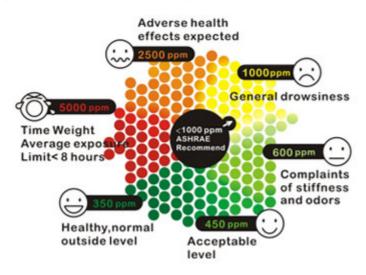# ZG Module - ZG01C

- ▶ Use Dual Beam NDIR technology to improve the long term stability
- ▶ Cost - effective CO2 monitors made with IR-SOC technology
- ▶ Small Module for OEM

Application:

- ▶ IAQ (Indoor air quality)
- ▶ Greenhouse
- ▶ HVAC.DCV (Demand Control Ventilation)

Calibration Tube	CO2 Entry Hole	Small Module

Specifications
Method - Dual Beam NDIR

Sample Method	Diffusion or flow through (50~200ml/min)
Operating Conditions	0~50°C (32~122° F) 0-95% RH, non-condensing
Storage conditions	-20~60°C (-4~140°F), 95%RH
Temperature	Typ.±0.2% of reading per °C or ±2 ppm per °C, whichever is greater,
Dependence	referenced to 25°C

Performance - CO2 Channel	
Measurement Range	0~3,000ppm/ 0.3% (ZG01C) or 0~10,000ppm/ 1.0% (ZG01C-M)
Accuracy	±50ppm or 5% of reading
Repeatibility	±20ppm
Temperature Dependence	Typ.±0.2% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C
Pressure Dependence	0.13% of reading per mm Hg
Response Time	About 2 min
Resolution	1ppm
Warm Up Time	<60 sec

Performance - Temperature Channel	
Temperature Range	0~50°C (32~122° F)
Accuracy	±1°C(±2°F) When the fan blows to the device directly, the accuracy of temperature is ±1.5 °C.
Response Time	20-30 minutes (case must equilibrate with environment)

Power Supply and Output	
Power Supply	5VDC supply (±5%),Ripple and Noise (mVp-p) 200
Power Consumption	Max.200mA, average :20mA
Output Interface	6pin Vertical Connector, Space=2.0mm &FFC (Flat Flexible Cable) connector
Digital Output	UART (Baud Rate: 19200, Check Bit: None, Data Bit: 8 bit, Stop Bit: 1)

(Specifications are subject to change without notice)

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