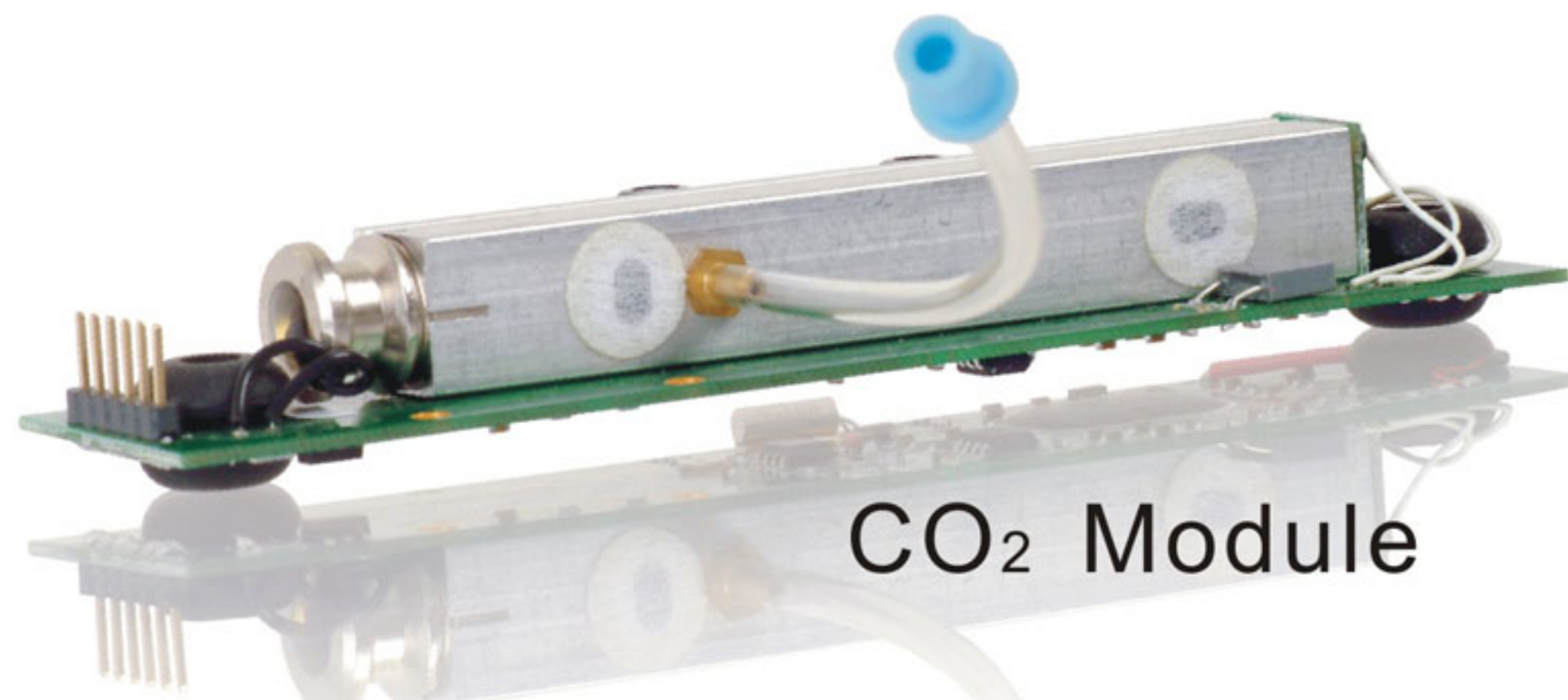


**ZyAura**  
Monitor the invisible



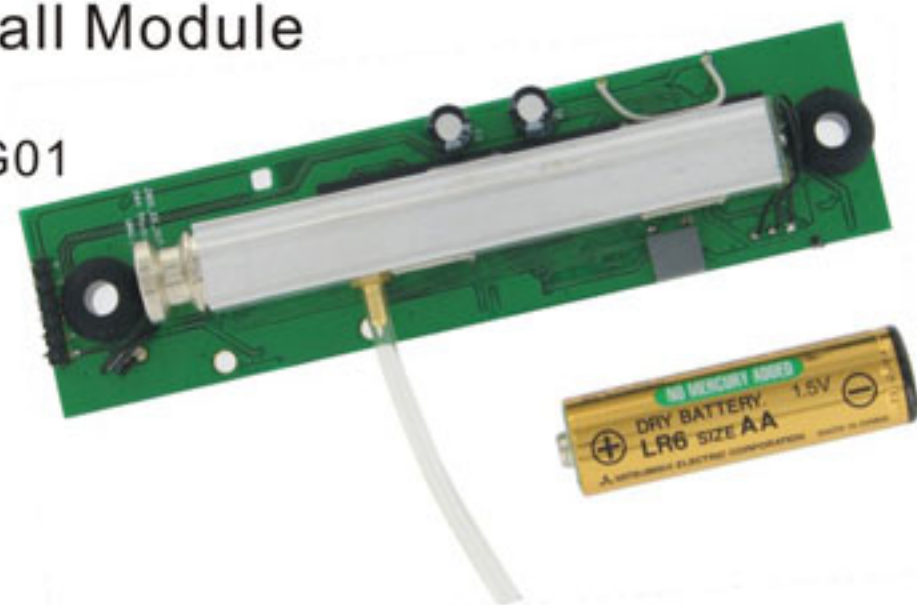
CO<sub>2</sub> Module

## ZG01 & ZG02C

- Small Module for OEM
- Use NDIR technology to improve the long term stability
- Cost - effective CO<sub>2</sub> monitors made with IR-SOC technology

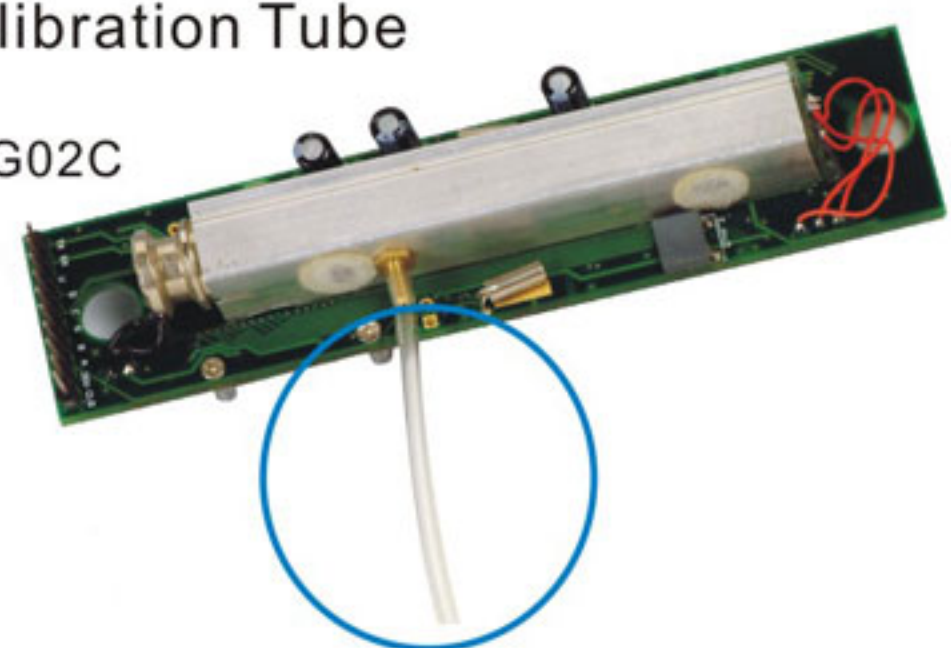
Small Module

ZG01



Calibration Tube

ZG02C



CO<sub>2</sub> Entry Hole (On the 2 sides of the module)



HVAC.DCV(Demand Control Ventilation)



IAQ



### Specifications

**Measurement Method:** NDIR

**Sample Method:**

ZG01: Diffusion or flow through (0.05~0.21/min)

ZG02C: Diffusion or flow through (0.1~0.21/min)

**Measurement Range:** 0~3000ppm/0.3%

**Operating TempRange:**

0~50°C (32~122°F) 0-95% RH, non-condensing

**Storage Range:** -20~60°C, 95%RH

#### ■ Accuracy

**CO<sub>2</sub> Accuracy:** +/-50ppm or 5% of reading

**Ambient Temperature Accuracy:** +/-1.0°C

**Pressure Dependence:** 0.13% of reading per mm Hg

**Repeatability:** 20ppm (ZG02C: defined as standard deviation of 10 readings in one minutes 400ppm)

**Resolution:** 1ppm

#### ■ Output

**ZG01:**

**Output Interface:** 6 pin Vertical Connector, Space=2.54mm

**Digital Output:** CO<sub>2</sub> & Tamb in ZyAura Protocol

**OC (Open Collector)Output:** Y (CntRHL:=High Limit)

**ZG01C:**

**Output Interface:** 10 pin Vertical Connector, Space=2.54mm

**Digital Output:** RS232 output

**Analog Output:** 4~20mA(max R<sub>load</sub> =200ohm), 0~4.096V

#### ■ Power Supply

**ZG01: AC/DC Supply:** 5.0VDC

**ZG02C: DC Supply:** 9~15VDC

#### ■ Warm Up & Response

**Response Time #R1 (63% RiseTime):** < 1min

**Warm Up Time(CO<sub>2</sub>):** < 60 sec

**Update Period:** 7 sec

**Warm Up Time(Ambient Temp):** 20~30min

**Dimension:** 118 x 28 x 20mm (4.65x1.10x0.79 inch)

**Weight:** 49g (1.73 oz)

**Sensor Life:** > 2 Years

Specifications are subject to change without notice

**ZyAura**  
Monitor the invisible

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