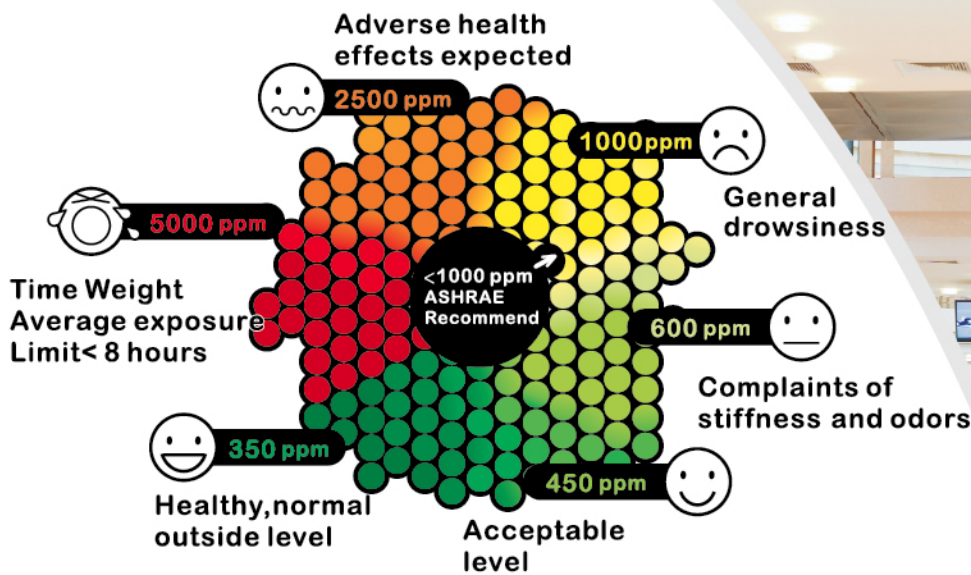




# High-Reliability CO<sub>2</sub> Module For Various Applications IAQ, Greenhouse, HVAC

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



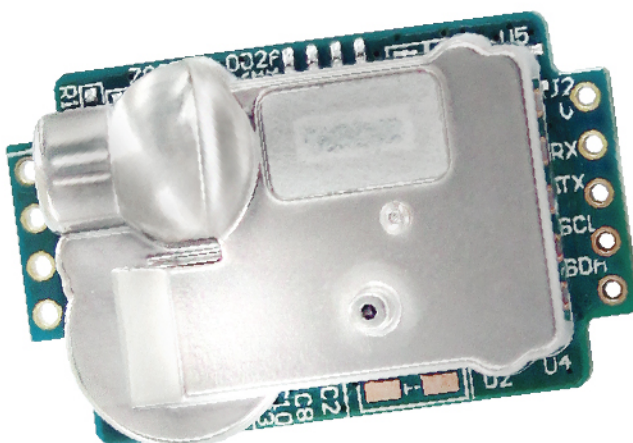
▶ Calibration Tube



▶ CO<sub>2</sub> Entry Hole



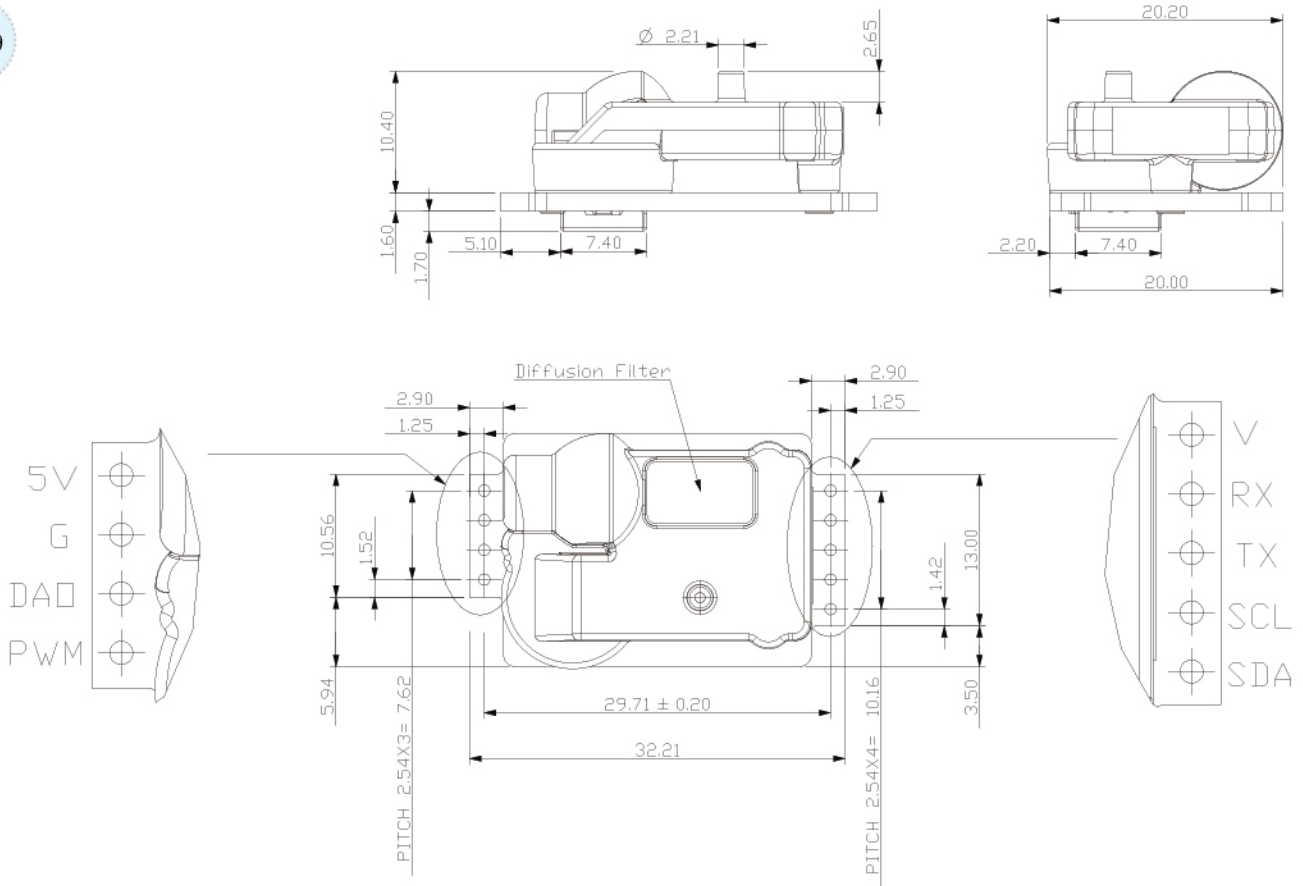
▶ Small Module



ZG09

## Application

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



Dimensions: 32.2mm x 20.2mm x 13.7mm

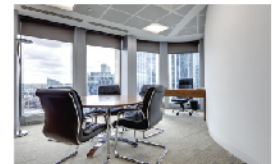
## Specifications (Specifications are subject to change without notice)

**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°C~-60°C (-4°F~140°F), 0~95%RH, non-condensing



### ■ Performance - CO2 Channel

**Measurement Range** 0~10,000ppm/1.0%

**Accuracy** ±(50ppm+3% of reading)

**Repeatability** ±20ppm

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

**Response Time** About 1 min

**Resolution** 1ppm

**Warm-Up Time** 30 seconds @25°C

### ■ Power Supply and Output

**Power Supply** 5.0 VDC ±0.5 supply

**Power Consumption** Max. (0.8 ms shot capture) <190mA, Avg. <34mA

**Output Interface** 9pin Connector, Space=2.54mm

**Digital Output** UART, RS485, I2C, PWM, DAC