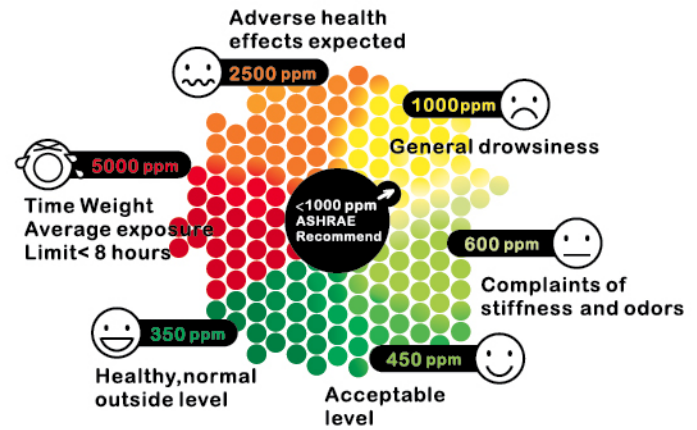


Monitor CO2 to Ensure Indoor Air Quality



HVAC mode: ● <800ppm ● 800~1200ppm ● ≥1200ppm
 GreenHouse mode: ● >1000ppm ● 600~1000ppm ● ≤600ppm



ZGw19C

(HVAC mode)

ZGw19C

- Dual Beam NDIR (Non-Dispersive-Infrared) technology used to measure CO2 concentration
- 3 LED display show the current Indoor Air Quality situation (HVAC/ GreenHouse Mode)
- Linear analog output (0~10V Voltage, 4~20mA Current) and Relay output based on CO2 Level
- Reliable Sensor provides long-term calibration stability
- The visual and audible alarm function can be adjustable by user
- Mounting bracket with terminal block provides quick easy installation



Greenhouse



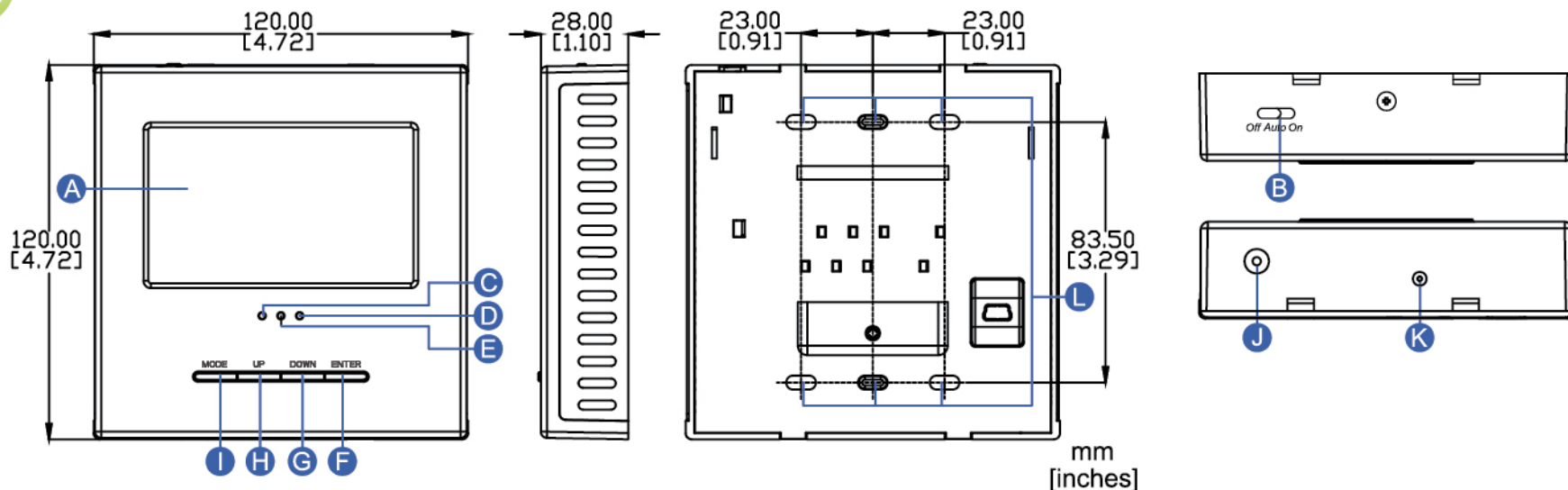
School



Home

ZGw19C

is smart, compact and easy-to-use. In addition to measuring the CO2 concentration, It can also measure the ambient temperature (CO2+Temp.+RH). This product is developed to detect the presence of CO2 in ambient air and helps people to take care of Indoor Air Quality.



A	Main LCD Display
B	Power Switch
C	Green LED Display
D	Yellow LED Display
E	Red LED Display
F	Enter Button
G	Down Button
H	Up Button
I	Mode Button
J	Phone Jack
K	Gas Entry Hole
L	Screw Position

Specifications

(Specifications are subject to change without notice)

Method - Dual Beam NDIR

Display - LCD Independent CO2, Temperature and RH readings

Sample Method - Diffusion or flow through (50 ~200 ml/min)

■ Performance - CO2 Channel

Measurement Range 0~3000ppm

Resolution 1ppm at 0~1,000ppm
10ppm at 1,001~3,000ppm

Accuracy ±75ppm or ±5% of reading whichever is greater

Repeatability ±20 ppm @400ppm

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 2min for 90% of step change

Warm-Up Time About 60 seconds at 22°C

Zone LED Display

HVAC mode:

- <800ppm
- 800~1200ppm
- >1200ppm

GreenHouse mode:

- >1000ppm
- 600~1000ppm
- ≤600ppm

■ Performance - Temperature Channel

Temperature Range Display 0 to 50°C

Display Resolution 0.1°C

Display Options °C

Accuracy Relay (no action and be under the alarm level)

±1°C when the fan blows to the device directly, the accuracy of temperature is ± 1.5 °C

Accuracy Relay (action and exceeds the alarm level)

±2.5°C when the fan blows to the device directly, the accuracy of temperature is ± 1.5 °C

Response Time 20-30 minutes (case must equalize with environment)

■ RH Specification

Measurement Range 20%-90% RH

Display Resolution 1% RH

Accuracy ±5%RH@23°C

Response Time About 5 min for 63% of step change

■ Power Supply

Power Supply DC (24V)

Linear Voltage Output 0~10VDC (100 Ohms output impedance)

Linear Current Output 4~20mA (Max Load is 500 Ohm) (Max Load is 400 Ohm while power supply <20 VDC)

Relay Output 30VDC or 250VAC, max 2A., SPST. Normally Open

■ Operating Conditions

Operating Temperature 0°C to 50°C

Humidity Range 0~95% RH non-condensing

Storage Temperature -20°C to +60°C