Monitor CO2 to Ensure Indoor Air Quality

CO2 MONITOR

3 IN 1
CO2+Temp.+RH

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

Adverse health effects expected

2500 ppm

1000ppm
General drowsiness

5000 ppm

Time Weight Average exposure Limit< 8 hours

<1000 ppm ASHRAE Recommend

600 ppm
Complaints of stiffness and odors

350 ppm
Healthy,normal outside level

450 ppm
Acceptable level

CO2 monitor

674 PPM

25.1 °C TEMP

48 %RH

MUTE
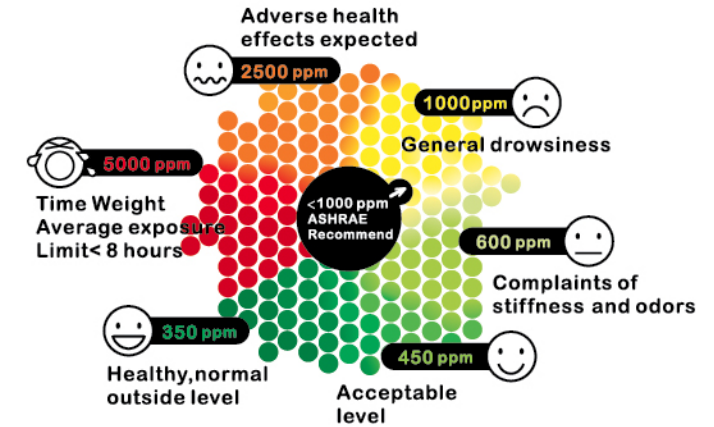
ZG1683R / ZG1683RU are smart, compact and easy-to-use. In addition to measuring the CO2 concentration, they can also measure the ambient temperature and the relative humidity(CO2+Temp.+RH). These products are developed to detect the presence of CO2 in ambient air and help people to take care of Indoor air Quality.

- Dual Beam NDIR technology to improve the long term stability
- Measure CO2, Temperature and Relative Humidity
- 3 LED display shows the current Indoor Air Quality
- Press "MUTE" for alarm on/off
- Built in the LCD Backlight for easy reading in the dark
- Connect to PC with data log function (ZG1683RU)
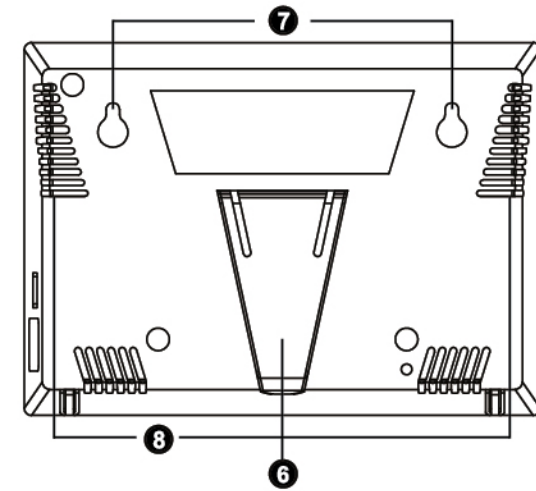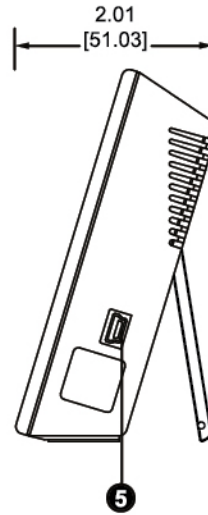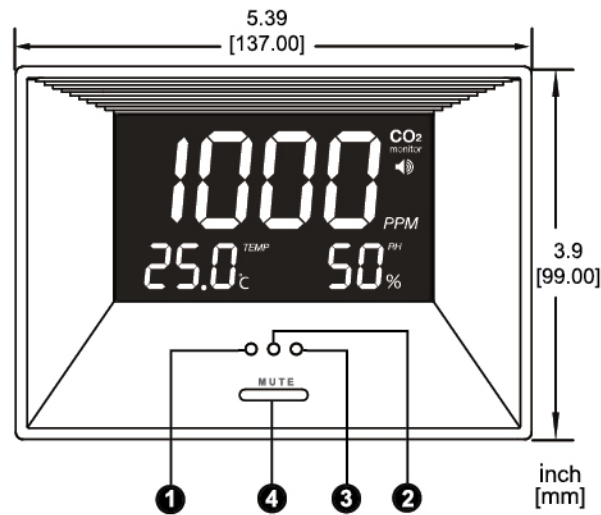
Power Supply
USB or 5 VDC from external AC/DC adapter

Office   School   Fitness center

ZyAura
Monitor the invisible

Dimensions: 5.39 [137.00] × 3.9 [99.00], depth 2.01 [51.03]

inch
[mm]

❶	Green LED Display(<800ppm)	❺	Power Inlet
❷	Yellow LED Display(800-1200ppm)	❻	Housing Stand
❸	Red LED Display(>1200ppm & buzzer alarm)	❼	Screw Position
❹	Mute Button	❽	Ventilation Slots

Connect to PC with data log function (ZG1683RU)
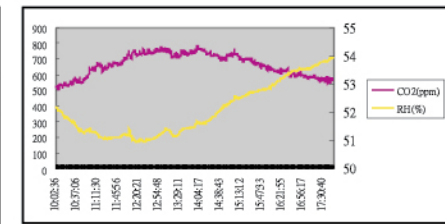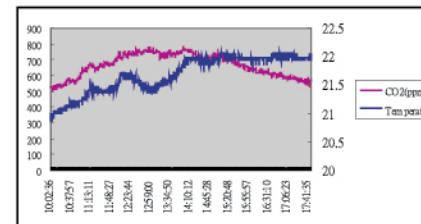
Please download ZyAura USB HUB PC software from http://www.zyaura.com/support/support_software.htm

Specifications

(Specifications are subject to change without notice)

Method - Dual Beam NDIR

Display -
LCD Independent CO2, RH and Temperature readings

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

■ Performance - CO2 Channel

Measurement Range 0~3000ppm

Resolution
1ppm at   0~1, 000 ppm
5ppm at 1,001~2, 000ppm
10ppm at 2,001~3, 000ppm

Accuracy
Under 25°C: ±80 ppm or ±5% of reading (≦2000ppm; ±7% reading (>2000ppm)

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

Response Time
About 2min for 63% of step change

Warm-Up Time 2 min. at 22°C

■ Performance - Temperature Channel

Temperature Range Display 0 to 50°C (32 to 122°F)

Display Resolution 0.1°C(0.1°F)

Display Options °C(°F)

Response Time
20~30 minutes
(case must equilibrate with enviroment)

■ RH Specification

Measurement Range 20%~90% RH

Display Resolution 1%RH

Accuracy ±5% RH@23°C

Response Time < 5mins for 63% of step change

■ Power Supply

Power supply
USB or 5 VDC from external AC/DC adapter which is included in package
(Use specified AC adapter only)

DC Output voltage 5 VDC, 1000A

AC Input voltage & Frequency 100 ~ 240 VAC, 0. 2 A 50 / 60 Hz

■ Communication Interface (ZG1683RU)

Version USB 2.0 low speed function

OS Windows XP ,Window7