

# Monitoring CO2 to Ensure Indoor Air Quality

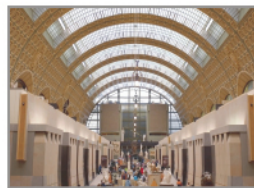
- CO2, RH, Temperature measurement mode
- Excellent for measuring IAQ in Public places
- Ultra low cost CO2 Monitor achieved by New IR-SoC Technology
- It uses Dual Beam NDIR technology to improve the long term stability



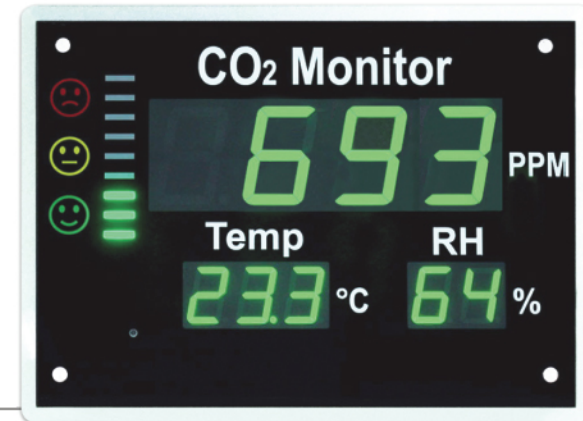
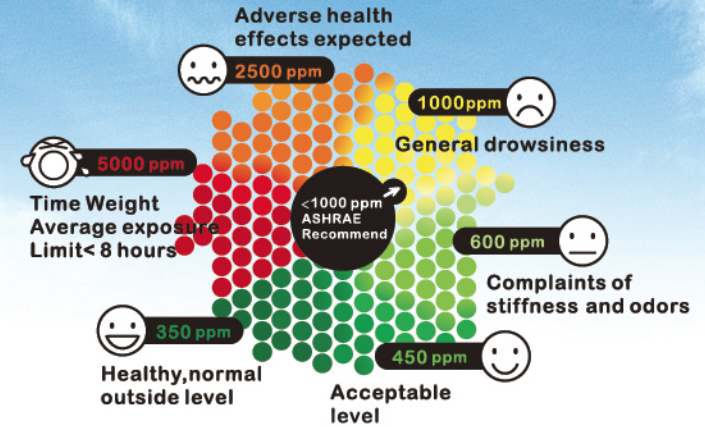
Airport



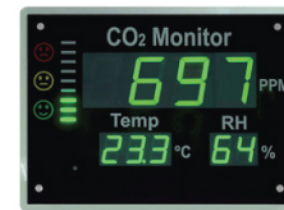
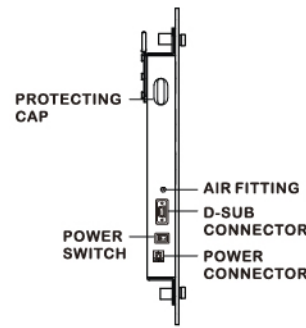
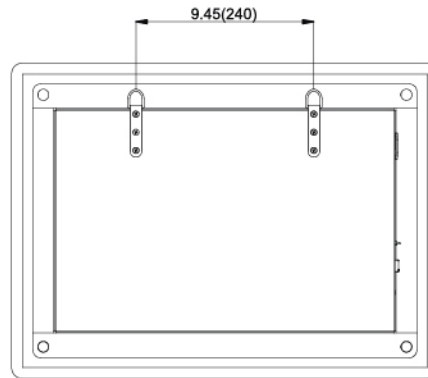
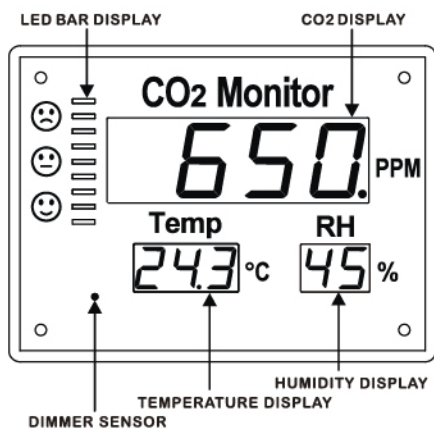
Station



Museum



ZGkb301



ZGkb301

(W)x(H)=  
22.68 x 16.77 inch  
(576 x 426mm)



ZGkb201p

(W)x(H)=  
11.69 x 8.27 inch  
(297 x 210mm)



A4 Folder

# Monitoring CO2 to Ensure Indoor Air Quality



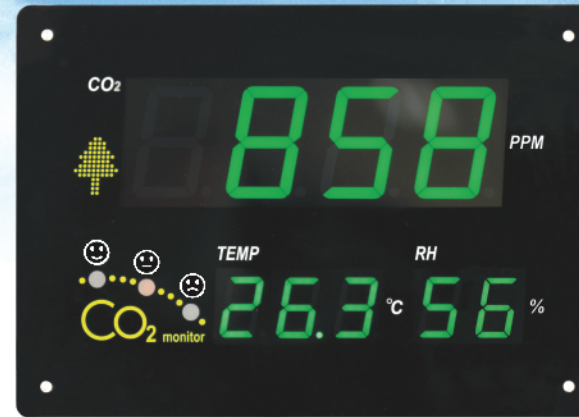
Fitness center



Office

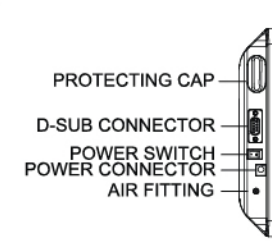
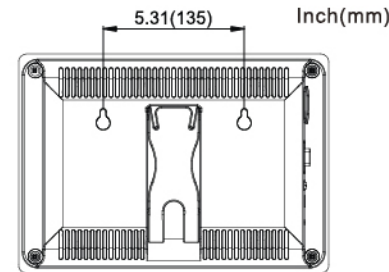
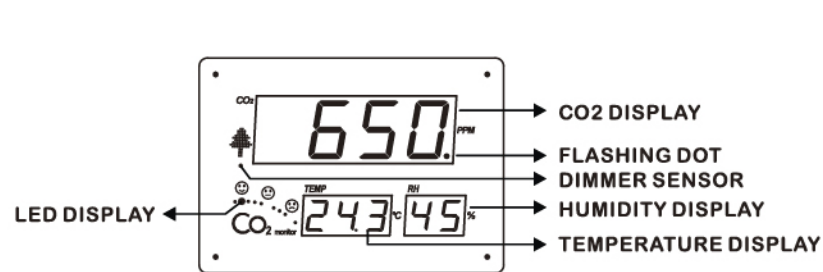


School



**ZGkb201p** (W)x(H)=11.69x8.27 inch

● < 800ppm | ● 800~1,200ppm | ● > 1,200ppm



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

**Method** - Dual Beam NDIR

**Display** - Single Digit LED

**Sample Method** -

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

**Accuracy** 0~2,000ppm:  $\pm 70$  ppm or  $\pm 5\%$  of reading, whichever is greater; over 2000ppm:  $\pm 7\%$

**Repeatability**  $\pm 20$  ppm

**Temperature Dependence** Typ.  $\pm 0.2\%$  of reading per  $^{\circ}\text{C}$  or  $\pm 2$  ppm per  $^{\circ}\text{C}$ , whichever is greater, referenced to  $25^{\circ}\text{C}$

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

**Response Time** About 2min for 63% of step change

**Warm-Up Time** <60 seconds at  $22^{\circ}\text{C}$

### ■ Performance - CO2 Channel

**Measurement Range** 0~3000ppm

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

### ■ Performance - Temperature Channel

**Temperature Range** Display 0 to  $40^{\circ}\text{C}$  ( $32$  to  $104^{\circ}\text{F}$ )

**Display Resolution**  $0.1^{\circ}\text{C}$  ( $0.1^{\circ}\text{F}$ )

**Display Options**  $^{\circ}\text{C}$ ( $^{\circ}\text{F}$ )

**Accuracy**  $\pm 1^{\circ}\text{C}$  ( $\pm 2^{\circ}\text{F}$ )

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

### ■ RH Specification

**Measurement Range** 20%~90%

**Display Resolution** 1%RH

**Accuracy**  $\pm 5\%$  RH@ $23^{\circ}\text{C}$

**Response Time** < 5mins for 63% of step change

### ■ Power Supply Battery Type

**Power supply battery type** Universal 100~240VAC, 50/60Hz, External Power Brick(included in package)

**Power Consumption** ZGkb201p 7 Watts (Max.)  
ZGkb301 11 Watts (Max.)

### ■ General Operating Conditions

**Operating Temperature** 0 -  $40^{\circ}\text{C}$  ( $32$  -  $104^{\circ}\text{F}$ )

**Humidity Range** 0-95%RH, non-condensing

**Storage Temperature** -20 to  $60^{\circ}\text{C}$  (-4 to  $140^{\circ}\text{F}$ )