Visualization of CO₂ concentration as a benchmark for ventilation

CO₂ Monitor

Marvel 001/003 301

Compliant with Ministry of Economy, Trade and Industry "Guidelines for Selection of Carbon Dioxide Concentration Measuring Instruments"
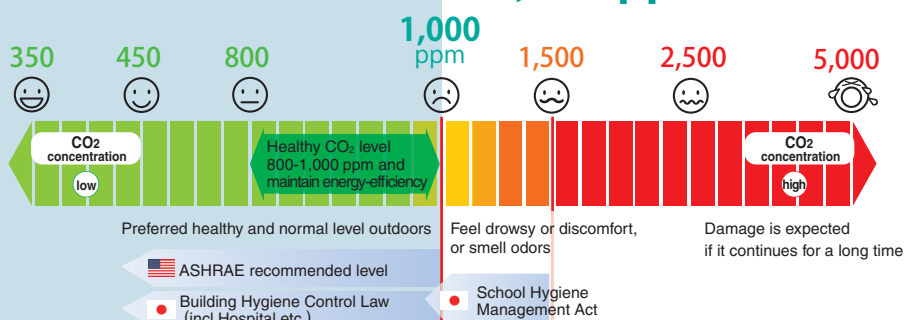
CO₂ **634** PPM

TEMP **24.5** ℃   RH **56** %

CO2 monitor   *Marvel*

■ Marvel

634 PPM
24.5℃   56%
MUTE   CO2 monitor *Marvel*

■ Marvel 001 / 003

Use of High-Precision optical NDIR dual beam Sensor

Correction function embedded for measured CO₂ concentration

"Clean air quality"
when monitor shows
CO₂ concentration of 1,000 ppm or less

350   450   800   **1,000 ppm**   1,500   2,500   5,000

CO₂ concentration **low**

Healthy CO₂ level 800-1,000 ppm and maintain energy-efficiency

CO₂ concentration **high**

Preferred healthy and normal level outdoors

Feel drowsy or discomfort, or smell odors

Damage is expected if it continues for a long time

ASHRAE recommended level

● Building Hygiene Control Law (incl.Hospital etc.)

● School Hygiene Management Act

Visualize ventilation

634 PPM

634℃
24.5℃   56

CONTACT US   ✉ **info@chcsys.net**

*Please feel free to contact us with any questions before purchasing.
*Reception hours are from 9:00 a.m. to 5:00 p.m. (excluding weekends and holidays)

Marvel   **C.H.C.** C.H.C. SYSTEM CO., LTD. ®

Planning, Designing, and sales: C.H.C. SYSTEM TOKYO, JAPAN

Product HP

C.H.C. SYSTEM plans, develops, and provides Japan's first full-scale carbon dioxide measuring instrument.

⚏ Visualize of ventilation

Measurement method	Optical NDIR (non-dispersive infrared absorption method) dual beam sensor
Display	CO_2 concentration ppm, temperature °C, humidity %
Installation method	Desktop (use by rear stand) or wall mounted
Display panel	Large screen semi-wide approximately 3.9 inches (85 x 50 mm)
Power supply	DC5V USB cable specification ⇒ Mini USB side connection AC adapter included
	*Not rechargeable or battery-powered
Usage conditions	Temperature: 0-50°C; Humidity: 95% RH or less
Measurement range	0-5,000 ppm
Measurement accuracy	±5% or ±80 ppm (0-2,000 ppm)
LED display	Green: <800 ppm・Yellow: 800-1,000 ppm・Red: >1,000 ppm
Alarm	activated if it reaches 1,000 ppm or more;
	Stops at less than 1,000 ppm. With mute function
Dimensions	Width 137mm x Height 99mm x Thickness 28mm (Weight 195g)

In addition to the above standard specifications, this model has a built-in data logger that enables the recording and then for analysis of measured CO_2 concentration, temperature, and humidity data.
(Dedicated software for time setting and data editing can be downloaded from HP. Compatible OS windows only)

Measurement method	Optical NDIR (non-dispersive infrared absorption method) dual beam sensor
Display	CO_2 concentration ppm, temperature °C, humidity %
Installation method	Wall installation (with back hook)
Display panel	High brightness LED display, approx. 22 inches (490 x 285mm)
Power supply	AC adapter included
Measurement range	0-3,000 ppm
Measurement accuracy	Within ±5% or ±70 ppm (0-2,000 ppm)
LED display	Green: ≤800 ppm・Yellow: 801-1,200 ppm・Red: >1,200 ppm
Dimensions	Width 564mm x Height 414mm x Thickness 58mm (Weight 5kg)
	No relay/No connecton to PC

The highly visible LED indicator displays the CO_2 concentration in 9 levels.