

Sensible Multi Indoor Air Quality Monitor

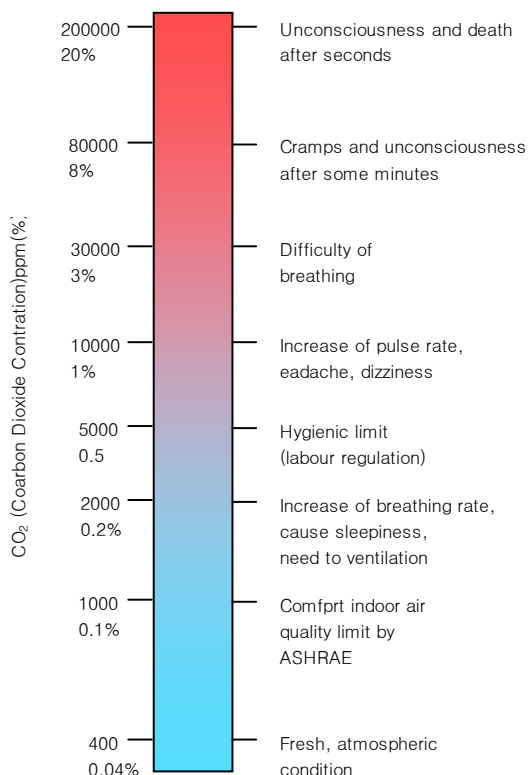
General information of CO₂ Gas

People breathe in Oxygen(O₂) and breathe out Carbon dioxide(CO₂). This will increase concentration of CO₂ in the room and start to contaminate the air quality. Besides micro dusts, chemicals and other polluting elements, mostly CO₂ gas concentration is the major polluting element of indoor air quality. CO₂ gas is colorless, odorless, and tasteless which cause direct harm on human health. The concentration level goes up where there are many people and if there is no or low ventilation system.

The best way to run the air quality system properly is to measure the amount of CO₂ concentration and then control the ventilation system with it.



How dose CO₂ affect the human body?



ASHRAE : American Society of Heating,Refrigeration and Air Conditioning Engineers

Features - Multi Functional of SenseLife-Tim8

1. Digital Indoor temperature humidity indicator function
2. Dewpoint alarm function to avoid molds in cold season
3. Concentration of CO₂ is key factor for ventilation system to keep better Indoor Air quality.
4. According world standard, indoor CO₂ level should be under 1,000ppm(ASHRAE standard recommended)
5. NDIR(non dispersive infra-red measuring method) is highly respected and widely used for its accuracy.
6. CO₂ Alarm has been set at 5,000ppm, which is Hygienic limit value(can be changed by pushing buttons)
7. Time, dates and morning call function
8. Many convenient personal preference function such as CO₂ alarm setting, dewpoint setting, clock, calendar and morning call.

Applications

According to most building regulations, the fresh air flow should, in rooms where people stay more than occasionally, be at least 7 litres/sec and person.

SenseLife is applicable to ...

Living rooms, Bed rooms, Study rooms, Class rooms
Offices, Baby rooms, Nursery, Kinder gadens, Shops / boutiques, Underground market place, Ward rooms, Sports halls, many more..

Technical Data**Temperature**

Operating Principle : Thermistor
 Measuring temperature range : -20℃~50℃,
 Storage Temperature range : -30 ~ 70℃
 Accuracy : ± 1℃
 Response Time : < 30 sec.

Humidity

Operating Principle : Resistive humidity sensor
 Display unit : Relative Humidity(RH%)
 Measuring humidity range : 30-80%RH
 Accuracy : ±5%RH

Carbon Dioxide(CO2)

Sensing method : non-dispersive infrared (NDIR)
 waveguide technology with ABC automatic back-
 ground calibration algorithm
 Sampling Method : diffusion
 Measurement Range : 0 - 10,000ppm
 Display : 4 Digits, 7 segments LCD with ppm indicator
 Measurement interval : 2 seconds
 Precision : ±75ppm + 5% of measured value
 Warm Up time to spec precision : 30 sec

Adaptor

Power input : AC110/220V, 50/60Hz
 Output : DV 5V 1,000mA

Functional Information**Indoor air quality level indication: Good, Normal, Poor**

Air quality level according to CO₂ concentration
 Standard set value under 800ppm: Good(user can change)
 Standard set value 800~1,200 ppm : Normal(user can change)
 Standard set value more than 1,200 ppm :Poor(user can change)
 Standard set value over 5,000 ppm Alarm(user can change)

Dewpoint alarm

When temperature is below 12℃ and humidity is over 55%,
 waterdrop +temperature sign will be on along with alarm sound.
 But after 10 pm , only the waterdrop and temperature sign will be
 on without sound alarm.

CO2 warning Alarm

Main CO₂ warning alarm : user can set between 100 to 9,990ppm
 Sub CO₂ warning alarm : user can set between 1,200~4,990ppm

All alarm will be off after 10 PM

All alarm sound will be off after 10pm, excepting main CO₂
 warning and morning call alarm

Humidity : when humidity is over 60%, only the waterdrop
 sign will be on. When humidity is under 30%, 'Lo' sign
 will be on (no alarm)

Morning call : the alarm will be on at the time user has set.
 Alarm will go on for 1 minute (push any button to stop)

Morning call alarm will go on for 5 minutes : 3 times
 repeat and on for 1 minute, unless it is not turned off by pushing
 any button

Power for the clock : If powered at least 12 hours, time -data
 will be kept for two months by its builtin capacitor .

Color options

Dimension : 115 x 108 x 63 mm (W x H x D)

Weight : 180g



Gold & Silver



Woodgrain & Gold



White & Gold