INDOOR AIR QUALITY MONITOR



CO₂ LEVELS AND GUIDELINES

(Non-Enforced Reference levels)

NIOSH recommendations

250 250 nnm:

250-350 ppm:
Normal outdoor ambient concentrations

:mag 000

Minimal air quality complaints

600-1000 ppm:

Less clearly interpreted

1000 ppi

Indicates inadequate ventilation; complaints such as headaches, fatigue and eye/throat irritation will be more widespread. 1000 ppm should be used as an upper limit for indoor levels.

EPA Taiwan: 600ppm and 1000ppm

Type 1

indoor areas such as department stores, theaters, restaurants, libraries, the acceptable CO_2 concentration of 8 hours avarge is 1000ppm.

Type 2

indoor areas with special requirements of good air quality such as schools, hospitals, day care centers, the suggested CO₂ level is 600ppm.

Regulatory exposure limit

ASHRAE Standard 62-1989: 1000ppm

 CO_2 concentration in occupied building should not exceed 1000ppm.

Building bulletin 101 (BB101): 1500ppm

UK standards for schools say that CO_2 at averaged over the whole day(i.e. 9am to 3.30pm) should not exceed 1500ppm.

OSHA: 5000ppm

Time weighted average over five 8-hour work days should not exceed 5000ppm.

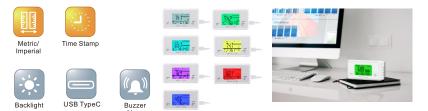
Germany, Japan, Australia, UK...: 5000ppm 8 hours weighted average in occupational exposure limit is 5000ppm.

Ordering Code

VZ7727NL, 7727 compact size CO₂ monitor VB17729A, 5V USB adaptor with 4 plugs

CO₂, HUMIDITY, TEMP.. TREND METER 7727

- ■Big LCD displays CO2 value, humidity, temperature , CO2 trend (with good, normal, poor indicator) and hour-minute clock.
- ■Touch panel to program the setting
- ■NDIR (non-dispersive infrared) waveguide CO2 technology
- ■3-color backlight to indicate status of indoor air quality
- ■Eco mode to turn backlight dim during night time
- ■7-color backlight as nightlight to fit home/office decoration
- ■Compact design suitable for both desktop and wall mount



Model	7727
Measuring range	
CO2	200~5000 ppm,
Temperature	0.0~50.0 ^o C (32~122 ^o F)
Humidity	5~95% RH
Resolution	1ppm , 0.1 ^o C/ ^o F, 1%RH
Accuracy	
CO2	<u>+</u> 50ppm <u>+</u> 5% of reading(200~3000ppm)
Temperature	Other range is 10% of reading +0.6 ^o C/+0.9 ^o F
remperature	±0.6 C/±0.9 F ±5%RH (at 25 ^o C, 10~90%RH);
Humidity	±7%RH (at 25°C, other range)
Marm un time	
Warm-up time	10 seconds
Response time	
CO2	<2 mins (63% step change)
Tair	<2 mins (90% step change)
Humidity	<20 minutes (90% step change)
Operating condition	0~50 ⁰ C , 0~95% RH (avoid condensation)
Storage condition	-20~ 50 °C,0~95%RH(avoid condensation)
Power supply	5VDC USB type C port
Power consumption	<500mA
Buzzer	~70dB at 10cm distance
Meter/LCD size	108x67x30 mm / 60 x 37.5 mm
Weight	90g
Standard package	Meter, manual ,USB type C cable, paper box
Optional accessory	100~240V to 5V@0.6A adaptor with 4 plugs (US.EU.UK. AU)

4 Different Backlight settings to fulfill all your needs

AUTO mode

The LCD backlight auto switches between green, yellow and red according to CO2 concentration.

AL mode

The LCD backlight only turns on and in red while CO2 is higher than threshold

ON mode

The backlight is always ON and 7 colors can be picked up from setting mode.

OFF mode

Backlight is always OFF.