

INDOOR AIR QUALITY MONITOR



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



CO₂ LEVELS AND GUIDELINES

Non-Enforced Reference levels

NIOSH recommendations

250-350 ppm:

Normal outdoor ambient concentrations

600 ppm:

Minimal air quality complaints

600-1000 ppm:

Less clearly interpreted

1000 ppm:

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 CO₂ concentration of 8 hours average 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

CO₂ concentration in occupied building should not exceed 1000ppm.

Building bulletin 101 (BB101): 1500ppm

UK standards for schools say that CO₂ 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

Model	7727
Measuring range	
CO ₂	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	
CO ₂	±50ppm±5% of reading (200~3000ppm) Other range is 10% of reading
Temperature	±0.6 ^o C/±0.9 ^o F
Humidity	±5%RH (at 25 ^o C, 10~90%RH); ±7%RH (at 25 ^o C, other range)
Warm-up time	10 seconds
Response time	
CO ₂	<2 mins (63% step change)
Tair	<2 mins (90% step change)
Humidity	<20 minutes (90% step change)
Operating condition	0~50 ^o C, 0~95% RH (avoid condensation)
Storage condition	-20~ 50 ^o 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.