

CO_2, HUMIDITY, TEMP., TREND MONITOR 7727

■Big LCD displays CO_2 value, humidity, temperature , CO_2 trend (with good, normal, poor indicator) and hour-minute clock.
■Logged CO_2 data shown as trend, no need to download.
■Touch panel to program the setting
■NDIR (non-dispersive infrared) CO_2 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 deco.



CO_2 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 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 CO_2 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.

Model	7727
Measuring range	
CO2	200~5000 ppm,
Temperature	0.0~50.0°C (32~122°F)
Humidity	5~95% RH
Resolution	1ppm , 0.1°C/°F, 1%RH
Accuracy	
CO2	±50ppm±5% of reading(200~3000ppm)
Temperature	Other range is 10% of reading ±0.6°C/±0.9°F
Humidity	±5%RH (at 25°C, 10~90%RH) ; ±7%RH (at 25°C , other range)
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°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.

Ordering Code
VZ7727NL, 7727 compact size CO_2 monitor
VB17729A, 5V USB adaptor with 4 plugs

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