



Congratulations on taking this important step toward living a healthier life. By keeping track of your carbon dioxide (CO₂) levels, you can better measure the quality of your own indoor air quality or make more informed decisions on where to spend your time indoors. Studies have shown that reducing CO₂ levels in your indoor spaces can increase energy levels, reduce the risk of airborne virus transmission and improve your sleep quality.

Every time someone exhales, speaks, sings etc., CO₂ is released into the air. As CO₂ levels rise in closed spaces with poor ventilation, so does the “shared air,” air which has been exhaled by someone else in the room. With COVID-19 and other respiratory illnesses, the more air you share, the higher the risk of inhaling and potentially becoming sick from an infectious virus. Since COVID-19 is most often spread by breathing, coughing, or talking, you can use CO₂ levels to see if the room is filling up with potentially infectious exhalations. The CO₂ level lets you estimate if enough fresh outside air is getting in.

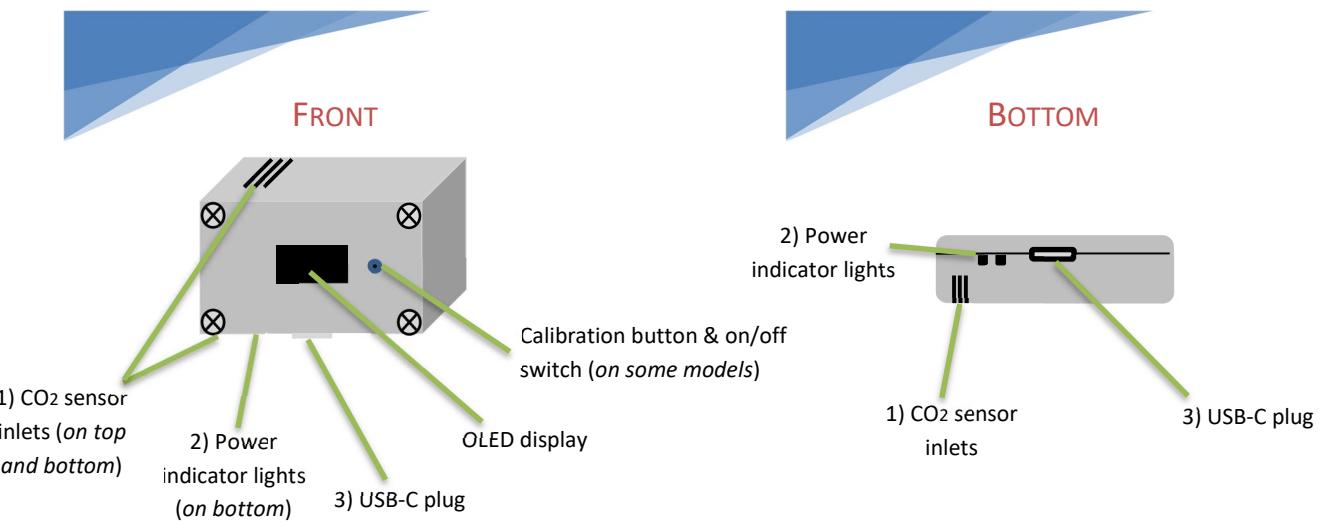
Outdoors, CO₂ levels are 390-420 parts per million (ppm). At 800 ppm, 1% of your air is “shared.” A well-ventilated room indoors will have less than 1,000 ppm of CO₂. **CO₂ levels any higher than 1,000 ppm is a sign the room might need more ventilation as there are elevated risks of virus transmission for everyone in the room.** At levels above 3,000 ppm your brain is affected, concentration levels go down, and drowsiness increases. At 4,000 ppm, 10% of the air has been breathed out by someone else.

CO₂ Check™ monitoring devices

CO₂ Check™ monitoring devices are innovative, rechargeable, portable, battery-powered, stand-alone devices for monitoring indoor CO₂ levels.

CO₂ Check™ monitoring devices are proudly made in Colorado, USA. 

Designed for use at home, in schools, offices, restaurants, churches, fitness centers or other indoor environments, CO₂ Check™ devices use cutting edge technology to accurately measure the amount of CO₂ in the air. **The small, simple to use and easy to operate devices let users know when CO₂ levels become unhealthy so users can take steps to mitigate levels and help keep people safe.**



Device Features

- 1) CO₂ sensor inlets
- 2) Power indicator lights
- 3) USB-C plug
- 4) OLED display
- 5) Calibration button & on/off switch (on some models)

How does the CO₂ Check™ device work?

The CO₂ Check™ device is equipped with an industry-leading CO₂ sensor and uses nondispersive infrared technology (NDIR). The device constantly draws in air, measures the CO₂ levels in the air, and updates the readings on the OLED display every 2 seconds. The device has a range up to 10,000 ppm.

To accurately measure the CO₂ levels in a room, the device should be placed at least 3 feet off the ground and at least 6 feet from windows or doors. Optimal placement is generally on a table, desk or wall in either the middle or perimeter of a room.

We also recommend not positioning the device too closely to one's body or face as this will result in high readings as a result of the device measuring the user's own personal exhaled air and not the mixed air in the indoor environment. The device can be powered by either a lithium polymer battery or via a USB-C cable.

What if my CO₂ levels are too high?

The good news is that if your CO₂ levels are too high it's easy to get them down.

- Bring outdoor air inside (open windows or doors)
- Decrease number of people in room
- Move to another room (or better yet, outside)
- Use a box or exhaust fans to circulate air
(Note: this will only decrease the CO₂ levels if the fan is pulling in "fresher" air)
- Increase or improve ventilation

Requires Weekly Calibration

While we calibrate all devices before they leave our factory, as with all CO₂ sensors, to ensure your sensor's readings don't "drift" too much, weekly calibration is required. To calibrate your device, take the device outside and expose it to fresh air. CO₂ levels should be 390-420 ppm when outdoors. If CO₂ levels are not 390-420 ppm, using a ballpoint pen, press and hold the calibration button (while still outside). After a few seconds the screen will display a 5-second countdown. Hold the button down until the countdown reaches 1. Upon releasing the calibration button the device will calibrate. Once outdoor CO₂ levels are within 390-420 ppm, the device is correctly calibrated. Repeat every week or as necessary. Please maintain a distance of at least three feet from the device during the calibration process.

Technical specifications

Power supply: Rechargeable 1000mah Lithium Polymer battery and a USB Type C (USB-C) connector cable

Dimensions: 70 mm x 54 mm x 25 mm

Weight: 1.9 ounces

Operating environment: Indoor use -- 32 to 122 degrees Fahrenheit (0 to 50 degrees Celsius) and 0% to 85% relative humidity

CO2 details:

- Levels are updated every 2 seconds
- Nondispersive infrared technology (NDIR)
- Non-condensing 0 – 85%RH
- Measurement range: 0-10,000 ppm
- (If the CO₂ levels surpass 10,000 ppm, the device will shut off momentarily. Upon turning back on it will initialize before the CO₂ levels are displayed on the screen again.)
- Accuracy: ± 70 ppm or ± 3% of reading at normal temperatures

Care and Maintenance

- The CO₂ Check™ device is intended for indoor use only
- Keep dry
- Use a dry cloth to clean
- Do not leave the device in direct sunlight for long periods of time
- Do not expose to high humidity or extreme temperatures
- Do not disassemble

If the detector is not working as specified, please contact us via our website (co2check.com) or email us at sales@co2check.com.