1) CO2 sensor inlet
2) Calibration ON/OFF & WIFI reset button
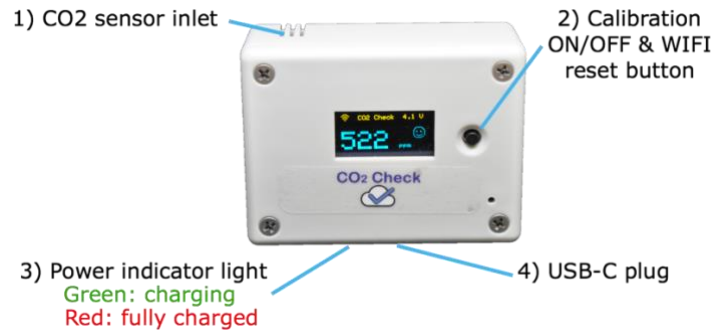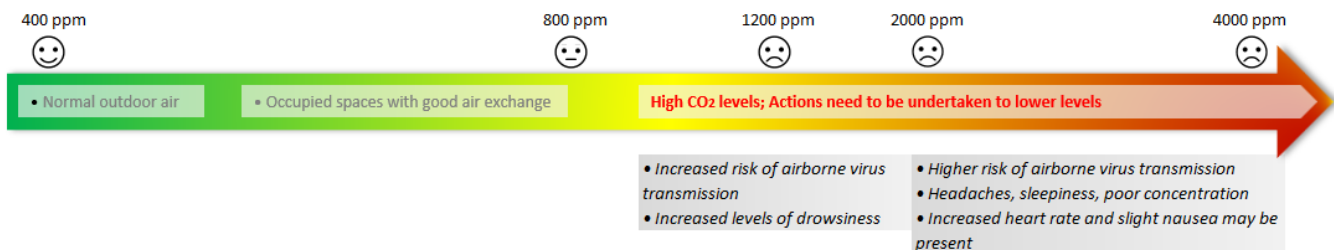3) Power indicator light
   Green: charging
   Red: fully charged
4) USB-C plug

Congratulations on taking this important step toward living a healthier life. By keeping track of your carbon dioxide (CO_2) 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 CO_2 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., CO_2 is released into the air. As CO_2 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 contaminated air and potentially becoming sick from an infectious virus. Since COVID-19 is most often spread by breathing, coughing, or talking, you can use CO_2 levels to see if a room is filling up with potentially infectious exhalations.

Outdoors, CO_2 levels are 385-420 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 CO_2. **CO_2 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.

400 ppm ☺ 800 ppm ☺ 1200 ppm ☹ 2000 ppm ☹ 4000 ppm ☹

• Normal outdoor air • Occupied spaces with good air exchange High CO₂ levels; Actions need to be undertaken to lower levels

• Increased risk of airborne virus transmission
• Increased levels of drowsiness

• Higher risk of airborne virus transmission
• Headaches, sleepiness, poor concentration
• Increased heart rate and slight nausea may be present

To connect to the App:
Download CO2 check from the App store and follow onscreen instructions. Once connected, you can use our dashboard to manage and download the data. https://devapi.co2check.com

⚠ **CALIBRATION REQUIRED**
While we calibrate all devices before they leave our factory, as with all CO_2 sensors, to ensure your sensor's readings don't "drift" too much, calibration is required.
CO_2 levels should be 385-420 ppm when outdoors. If CO_2 levels are not 385-420 ppm when outdoors, recalibrate your device by following the steps below (while still outside).

How does the CO_2 Check™ device work?

The CO_2 Check™ device is equipped with an industry-leading CO_2 sensor and uses nondispersive infrared technology (NDIR). The device constantly draws in air, measures the CO_2 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.

Optimal placement of device

To accurately measure the CO_2 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 CO_2 levels are too high?

The good news is that if your CO_2 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, go outside)
- Use a box or exhaust fans to circulate air (Note: this will only decrease the CO_2 levels if the fan is pulling in "fresher" air)
- Increase or improve ventilation

Technical specifications:

Power Supply USB-C	1700mAh Lithium battery	+24 hours reading and streaming
Dimensions	70 mm x 54 mm x 25 mm	
Weight	0.12 lbs.	
CO2 sensor	Reading every 2 seconds	Nondispersive infrared technology
Operating enviroment	32º-90º F/ 0º-32º C	0%-85% Relative Humidity
Measurement range	0 -10,000 parts per million (ppm)	
Accuracy	± 70 ppm or 3%± of reading at normal temperatures	

Care and Maintenance

Indoor use only, keep dry
CO_2 Check is not impact resistant
Use a dry cloth to clean
Do not leave the device in direct sunlight
Do not expose to high humidity or extreme temperatures
Do not disassemble

Terms and Conditions

The warranty shall apply to CO_2 Check one year after shipping.

Warranty repair: all products subject to the warranty shall be repaired or replaced free of charge within 20 days of their arrival at CO_2 Check facilities.

Warranty does not cover customer´s misuse or mishandling.

Restocking or refund are not applicable.

If you have further questions or comments, please contact us via our website (co2check.com) or email us at sales@co2check.com

To calibrate your device:

1) Take the device outside during daylight hours (any time between 10am – 5pm local time is preferred) and expose it to fresh air for at least 5 minutes.

2) Press and hold the ON/OFF button for 2 seconds. Release button to calibrate.

   > Hold to power down or reset WiFi
   > ---
   > Release to calibrate

3) Hold button down for 5 seconds while outdoors. Following screen comes up:

   > Hold to calibrate
   > Calibrate outdoors in 5 seconds...

4) Device is calibrated when "Calibration Complete" appears on the screen.

To power off your device:

1) Press and hold the on/off button

2) Continue holding the button down as the following screen comes up:

   > Hold to power down or reset WiFi
   > ---
   > Release to calibrate

3) When the following screen appears release the button to power down your device:

   > Release to power down
   > ---
   > Hold to reset WiFi and restart the device

4) Device powers down when "Powering Down" appears on the screen.

To reset Wi-Fi on your device:

1) Press and hold the on/off button

2) Continue holding the button down as the following screen comes up:

   > Hold to power down or reset WiFi
   > ---
   > Release to calibrate

3) When the following screen appears continue to hold the button:

   > Release to power down
   > ---
   > Hold to reset WiFi

4) Continue holding down the button until the following screen appears:

   > Resetting WiFi...

5) The device will delete any known WiFi networks and then restart.