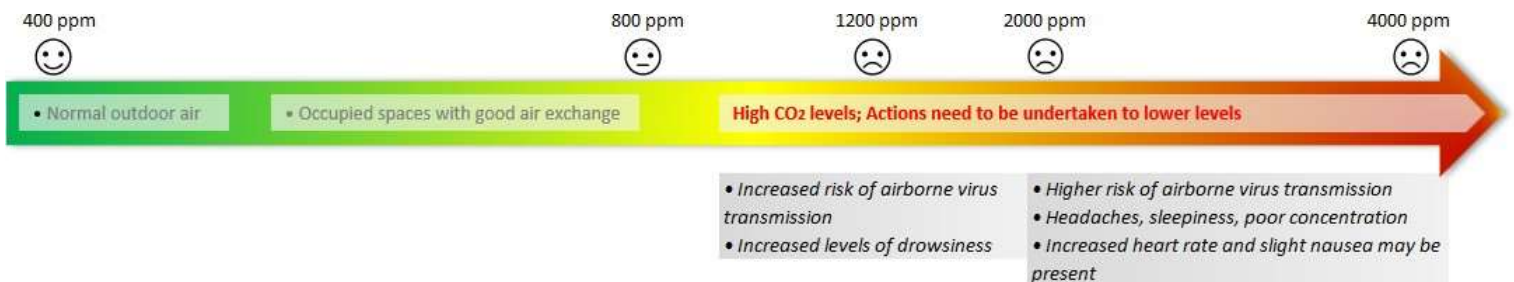# Focus on Ventilation: Keeping Schools Safe

Rechargeable, portable devices with remote trend monitoring of carbon dioxide (CO_2) levels
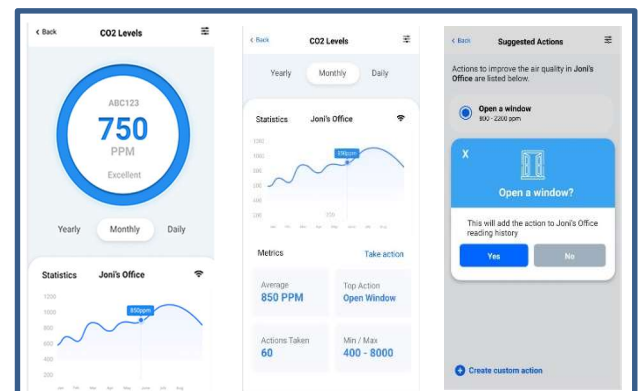
Why is it important to monitor indoor air quality and CO_2 levels in schools?

According to the Centers for Disease Control, CO_2 levels can be used as a proxy to measure how clean indoor air is. 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 air exhaled by someone else in the room (aka "shared air"). Research has shown that as the levels of CO_2 rise, there are greater levels of "shared air" and increased risks of transmission of airborne viruses (e.g. COVID-19, influenza, whooping cough). Measuring CO_2 levels allows school administrators and staff to get an objective, data-based measure of indoor airflow in classrooms or other shared spaces. Keep school staff and students safe by monitoring indoor air and acting quickly to improve air quality.

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

- Normal outdoor air
- Occupied spaces with good air exchange

High CO_2 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*

Designed Specifically for Schools

- **Remotely monitor your CO_2 levels:** CO_2 Check™ includes remote trend monitoring via a mobile app without any additional devices required. Just plug in your device, connect to the Wi-Fi, and your device will start transmitting data seamlessly to a mobile app and dashboard.
- **Mobile app and dashboard:** Designed for facility managers, administrators, and staff to be able to monitor their school's air quality from any location at any time. And, with push notifications, when acceptable CO_2 levels are surpassed, staff is alerted so they can take actions to improve air quality.
- **Simple, easy-to-use design:** Visual display with simple graphics to help in the classroom to prompt actions to improve air quality.
- **Included lesson plans to teach staff and students about CO_2 monitoring and improving indoor air quality:** Train staff and students about the importance of indoor air quality and staying safe using our CO_2 monitoring lesson plans.

Eligible for ESSER funds. Order now at www.CO2Check.com

$169

4 Options to Connect Your Remote Trend Monitoring System

Option 1: Wirelessly connect CO2 Check devices directly to your network.
Option 2: Add mesh network to increase your connectivity for multiple devices. (Silver Package)
Option 3: Ready-to-use option for small spaces (Gold Package)
Option 4: Ready-to-use option for large spaces (Platinum Package)

Packages Available

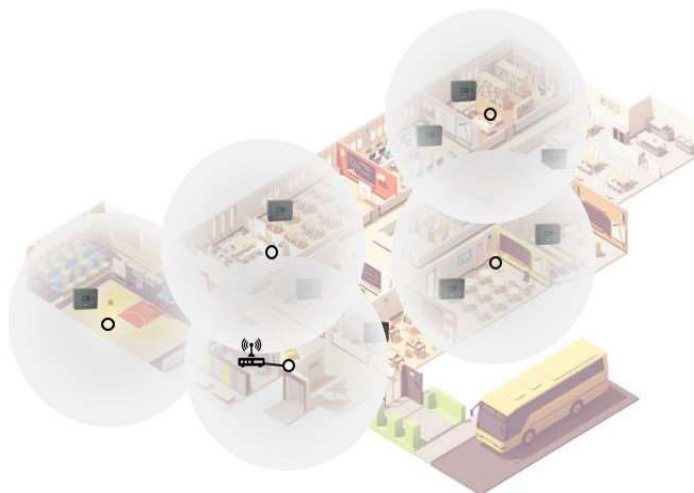|	Platinum	Gold	Silver
Mobile Hot Spot	X	X	
Mesh Network (comes with 3 nodes for 5,500 sq ft), additional nodes available	X		X
Cellular Service (1, 2, 3-year options available)	X	X	
Tablet for Display	X	X	
Technical Assistance	X	X	X
Total Price	**$2145**	**$1865**	**$315**

Individual Components also available. Call for pricing options. Does not include cost of CO2 Check devices.

Platinum Package

No need to rely on a school's WiFi network or connect devices via a school's guest network

By utilizing cellular service and mesh networking technology, all of a school's classrooms can have monitors that measure CO2 levels at all times. The devices are set up separate of a school's WiFi network, so there is no need to clog a school's network or to connect devices via a school's guest network. When levels get too high, our remote monitoring allows a staff member (facilities manager, school administrator, etc.) to get alerts that levels are too high in a classroom.

Sample Mesh Network Configuration to Cover Whole School

Equipment to Provide Coverage of Whole School

Cellular Tower   CO₂ Check Device

Mobile Hotspot   Mesh Network to provide school-wide coverage

Coverage provided by each mesh networking node