

HONEYWELL

Transmission Risk Air Monitor

A cost-effective monitor for use in schools, restaurants, and other small-to-medium-sized buildings that alerts to the potential increase of exposure to airborne transmission risk based on CO₂ and activity levels in an indoor area.*

As the world returns to in-person activities, engaging in additional measures to help support the health of the public is vital. Classrooms, restaurants, and buildings with outdated HVAC and ventilation systems can foster environments where the risk of airborne virus transmission could increase.* Honeywell proprietary technology that monitors CO₂ levels, coupled with user-controlled settings to account for human activity levels in an indoor area, provides users with a portable, cost-effective, and user-friendly solution that alerts to a potential increased risk of airborne viral transmission.

Research conducted by scientists at the University of Colorado¹ has shown that real-time monitoring of indoor ambient air can provide an indicator of increased risk of airborne viral transmission, utilizing different levels of risk-based factors such as CO₂ concentration levels and the type of human activity in the area.*

Using this guidance and Honeywell algorithms, we developed risk levels based on common activities and average variables such as room size, number of people present, breathing rate, and duration. The device comes with three pre-programmed indoor activity settings: low activity (movie theaters, libraries, and classrooms), medium activity (restaurants, offices, small clinics), and high activity (gyms, indoor arenas, recreation centers) and is recommended for coverage of 800-1000 square feet. For each setting, the monitor provides indications using a traffic light pattern (green, yellow, or red) and a sound alarm so users can be aware of the potential increase of airborne transmission risk based on detectable CO₂ levels.



The Honeywell Transmission Risk Air Monitor helps you monitor indoor environments in real time for potential increase of exposure to airborne transmission risk.



Monitor exposure for students in classrooms to indicate transmission risk level.



Monitor airborne transmission risk levels in restaurants to alert of higher risk situations.

FEATURES AND BENEFITS



The monitor comes with a user manual and USB charging cable. AC adapter sold separately.



Made of alloy and plastic, the monitor's sleek, lightweight design makes it easy to carry for real-time monitoring anywhere.



Red, yellow, and green indicators show at-a-glance the potential airborne transmission risk level of the air you are breathing.

Honeywell

Honeywell Transmission Risk Air Monitor Technical Specifications

SPECIFICATIONS

CHARACTERISTIC	PARAMETER
Dimensions (H × W × D)	80 mm × 80 mm × 22 mm [3.1 in × 3.1 in × 0.87 in]
Weight	150 g
Housing materials	Aluminum alloy
Display	TFT
Input voltage	5 V
Input current	1 A
Battery	Lithium-ion rechargeable battery 10-hour battery time
Battery capacity	2,600 mAh
Operating temperature & humidity	0°C to 50°C, 0% RH to 90% RH
USB port	Micro USB

In California's 2020 School Reopening Ventilation and Energy Efficiency Verification and Repair Program legislation, the importance of CO₂ monitoring in classroom settings is highlighted,

“To ensure proper ventilation is maintained throughout the school year, all classrooms shall be equipped with a carbon dioxide monitor.²”

¹ <https://tinyurl.com/FAQ-aerosols>

² https://leginfo.ca.gov/faces/codes_displayText.xhtml?lawCode=PUC&division=1.&title=&part=1.&chapter=8.7.&article=3

Monitors should be placed in the center of activity areas and should be close to breathing height (approximately 1.5 m, depending on the height or age of the room occupants), out of direct sunlight, and not directly located near induction units, floor fans, or heaters.

*** The Honeywell Transmission Risk Air Monitor is an indicator of potential risk of airborne viral transmission using multiple factors. It cannot prevent or reduce virus transmission, nor can it detect or warn against the presence of any virus, including but not limited to COVID-19.**

SENSOR RANGE

DESCRIPTION	DETECTION RANGE
CO ₂ (NDIR)	400 ppm to 2000 ppm
Temperature	-20°C to 60°C or -4°F to 140°F
Humidity	0% RH to 100% RH

DEVICE INDICATION



	GREEN	YELLOW	RED
Description	Lower airborne transmission risk	Medium airborne transmission risk	Higher airborne transmission risk
Recommended Action	–	<ul style="list-style-type: none"> Open windows Turn on HVAC fan 	<ul style="list-style-type: none"> Ventilate room immediately Reduce activities Move out of room until light changes to green
Alarm	–	One beep	Two beeps

**THE
FUTURE
IS
WHAT
WE
MAKE IT**