

Honeywell



Honeywell Transmission Risk Air Monitor

HONEYWELL TRANSMISSION RISK AIR MONITOR* WHAT IS IT?

A cost-effective monitor targeted at schools and restaurants

Alerts users of higher potential exposure to airborne viral transmission risk in an indoor area



** 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.*

HONEYWELL TRANSMISSION RISK AIR MONITOR

KEY FEATURES & BENEFITS

SIMPLE

Visible Alert

Green/Yellow/Red
Low/Medium/High

Sound Alarm

Audible Risk Alarm

Quick Set up

Turn On & Ready to Go



MODERN

Small & Light

3.1"×3.1"×0.9"
5.3 oz (0.3 lb.)

Easy to Read Display

CO₂, Temperature,
Humidity

Battery

Mini-USB
10-hour Battery Life

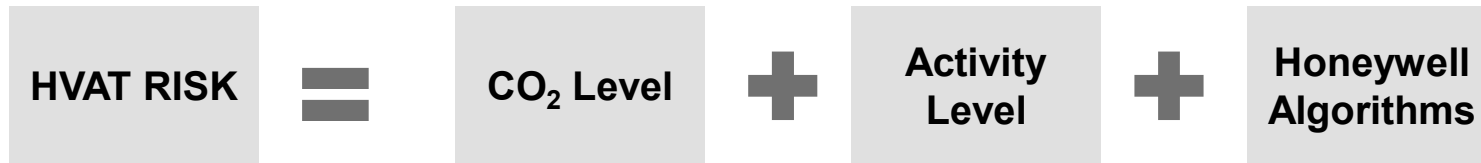
TRUSTED HONEYWELL BRAND

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HONEYWELL VIRAL AIR TRANSMISSION (HVAT)

HVAT Risk indicates potential risk level of room



GREEN

- Lower airborne transmission risk



YELLOW

- Moderate airborne transmission risk
- 1% of the air you are breathing has already been breathed by someone in the space
- ALARM:** One Beep
- RECOMMENDED ACTION:** Open windows, turn on HVAC fan

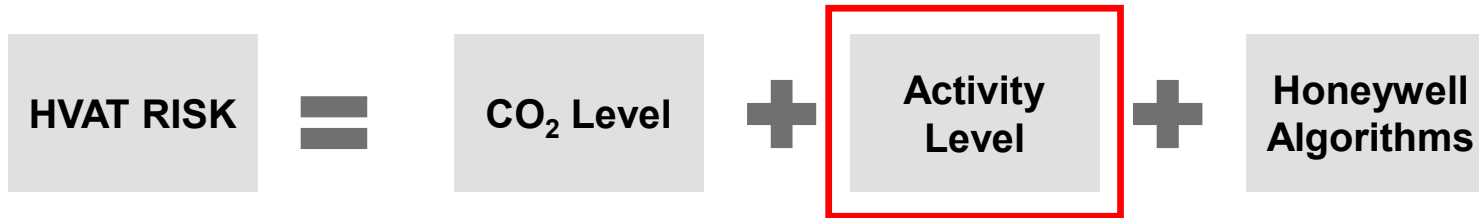


RED

- Higher airborne transmission risk
- ALARM:** Two Consecutive Beeps
- RECOMMENDED ACTIONS:** Ventilate room immediately, reduce activities, move out of room until light changes to green

HVAT | ACTIVITY LEVEL SETTING

HVAT Risk indicates potential risk level of room



Activity level set by user through App – can be changed as often as needed

HVAT algorithm calculates based on type of activity
Different activities have different inhalation & exhalation rates



RESEARCH ON CO₂ LEVEL CORRELATION TO AIRBORNE VIRUS TRANSMISSION

Quotes from AAAS Science:

“There is overwhelming evidence that **inhalation** of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) **represents a major transmission route for coronavirus disease 2019** (COVID-19).”

“Viruses in droplets (larger than 100 µm) typically fall to the ground in seconds within 2 m of the source and can be sprayed like tiny cannonballs onto nearby individuals. Viruses in aerosols (smaller than 100 µm) **can remain suspended in the air for many seconds to hours**, like smoke, and be inhaled.”

Substantial scientific support for airborne transmission to be dominant source of transmission of COVID

Surfaces are not major transmission route

Quote from Jose-Luis Jimenez, Professor of Chemistry and CIRES Fellow, University of Colorado-Boulder:

“Our research has shown a close correlation between the likelihood of **transmitting airborne viruses and increased carbon dioxide levels**. **Effective monitoring solutions can indicate that fresh air is sufficient and circulating properly in an enclosed space.**”

Indoor activities potentially expose much higher level of viral airborne transmission risk than outdoor activities

CO₂ levels can be used as a proxy of exhaled air (& exposure to potential airborne viruses)

Different activities have different inhalation & exhalation rates

Source: Seminar at the Univ. of Houston 29-Jan-2021: "Transmission of SARS-CoV-2 & how to protect ourselves" - YouTube
[Airborne transmission of SARS-CoV-2 | Science \(sciencemag.org\)](https://onlinelibrary.wiley.com/doi/abs/10.1034/j.1600-0668.2003.00189.x)
[https://onlinelibrary.wiley.com/doi/abs/10.1034/j.1600-0668.2003.00189.x;](https://onlinelibrary.wiley.com/doi/abs/10.1034/j.1600-0668.2003.00189.x)
<https://www.medrxiv.org/content/10.1101/2020.09.09.20191676v1>

TARGET SEGMENTS



Schools and Universities
Classrooms
Libraries
Cafeteria



Restaurants
Gyms
Other private
& public buildings

WHY SCHOOLS?

- Pressure to go back to “in person” learning
- Average class size: 19 students / classroom and average classroom size is 900 ft² (crowded in small space)
- Potential for lack of upgraded HVAC and ventilation systems
- Limited funding to upgrade ventilation system, but could fund small purchases on filters, air purifiers, and low-cost air monitors like Honeywell Transmission Risk Air Monitor

WHY RESTAURANTS?

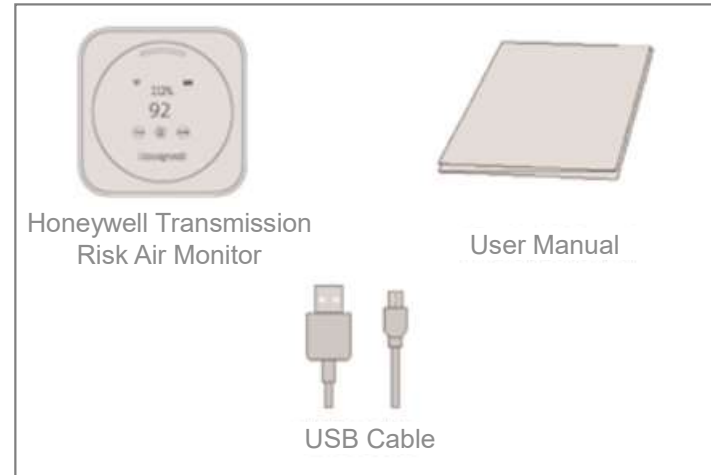
- Long duration in public, enclosed area: ~90 min
- Eating and loud speaking increase CO₂
- Cooking at home fatigue, people may take more risk to go out
- Peace of mind for customers & employees

PRODUCT DETAILS

SPECIFICATIONS

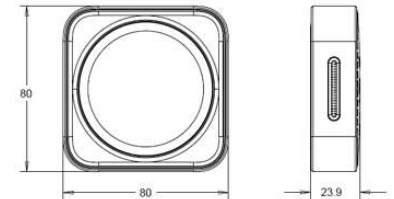
CO₂ Sensor (NDIR)	Range: 400-2000 ppm Precision: +/- 40 ppm
Temperature	-20°C to 60°C Precision: +/- 1°C
Humidity	0%-100% RH Precision: +/- 5%
USB Port	Micro USB
Materials	Aluminum Alloy
Display	TFT
Input Voltage	5V
Input Current	1A
Certifications	FCC, CE, IC, EMC
Warranty	1 year
Lifetime	2 years
Battery	Lithium-ion rechargeable battery Charging time: 6 hours Battery time: 10 hours
Battery Capacity	2,600 mAh

Product Box Contains:



Accessories Available:

- AC adaptor sold separately
 - EU Version
 - UK Version
 - US&C Version



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**THANK
YOU**

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