Monitoring Indoor Air Quality

GermSweep's IAQ sensors give you the data you need to open and operate schools safely now and in the future

GERMSWEEP
PLAN – MONITOR – DISINFECT
We Keep People Safe
www.germsweep.com

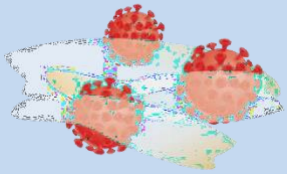
...And Make Your Schools Both Safe *and* Optimized for Learning

School officials everywhere are left with the dilemma to determine a strategy to open and maintain a healthy learning environment now and post-pandemic. As result, there is unprecedented attention on HVAC add-on products such as NBPI or UVC/ HEPA filters. But how do you determine if these solutions are working effectively? Unlike temperature or humidity these new emerging technologies are difficult to measure.

Germsweep Stay Safe IAQ Monitoring measures Ions, Particulate Matter and a dozen other elements *continuously and in real-time*. Our solution provides the data needed to validate that all aspects of your COVID-19 mitigation plan are working.

This makes it a very powerful tool and provides assurance to students, parents, teachers and staff that your environment is safe.

COVID-19 is transmitted through the air as it attaches to microscopic droplets



Bioaerosols remain in the air for hours and pose an inhalation threat in shared spaces. Masks and social distancing reduce the risk of infection, but they cannot detect it. Detection is critical for curbing the risk of transmission.

IAQ Issues in Schools are Also Well Documented

The EPA has been providing schools IAQ guidance for over two decades. According to the GSA, an estimated 41% of school districts need to update or replace HVAC systems.

"Qualitative and quantitative evidence demonstrating the relationship between IAQ and human performance and productivity has become more robust."

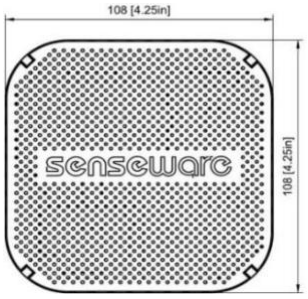
- ✓ Reduced absenteeism
- ✓ Increased test scores
- ✓ Improved performance on tasks requiring concentration

IAQ Monitoring is a Powerful Tool. Here's How it Can Help.

- ✓ Assess: IAQ Monitoring can help identify issues with your ventilation and filtration strategy. Which classrooms get enough airflow? What spaces carry infection risk? Make strategic changes, not unnecessary ones.
- ✓ Identify: IAQ monitoring can help identify other contaminants such as Ozone emitted from office equipment that hurt children, particularly those with asthma.
- ✓ Verify: Continuous real-time monitoring lets you know if changes to reduce transmission risk are working. For example, how do you know if all spaces are benefiting from the NBPI solution you just implemented?
- ✓ Monitor: Many schools have had engineers take readings to determine strategy. But School buildings are highly dynamic environments. Over the long term, our solution ensures your spaces remain as safe as possible.
- ✓ Assurance: Your teachers and parents will know you have taken every step possible to ensure the safety of their children.

Our IoT Platform is Modular, Scalable and Future Proof

Stay Safe IAQ Monitoring is powered by Senseware's sensor agnostic, real-time IAQ monitoring network. Their patented Modular IoT Architecture integrates new sensor technology quickly. As result, our unique set of sensors include several market innovations. In addition to RH, Temp and CO2, measurements Include:



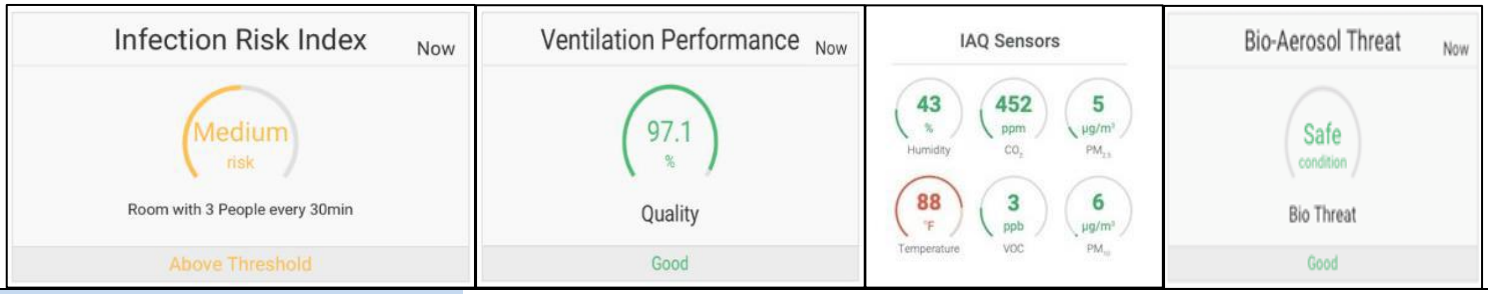
- ✓ IAQ-I: In an industry first, our next-generation Ion sensors provide a complete picture of the efficacy of your Needlepoint Bipolar Ionization (NBPI) system.
- ✓ Particulate Matter (PM): In another market first, we can continuously monitor particle sizes as small as 0.3µm to measure the effectiveness of filtration strategies and helps identify potential problem areas.
- ✓ Volatile Organic Compound (VOC): An unintended consequence of surface cleaning procedures is an increase in VOC concentrations that can negatively impact children, particularlythose with Asthma.
- ✓ Ozone (O3): Emissions from printers, copiers and other office equipment cause acute and chronic health problems. Even trace amounts can impact health.
- ✓ Bio-sensors: Real-time, continuous bio-sensing that can detect potential threats from infectious aerosols.

Air Quality Monitoring Puts You in Charge

Together we can provide a clear map of your school's air

School buildings are dynamic spaces. Space use changes almost daily. Different spaceshave different needs.

GermSweep allows you to stop guessing about facility air quality and safety, and start knowing. Air quality monitors detect changes in airborne contaminant levels to generate a dynamic airflow analysis that drives our proprietary Ventilation Performance Index (VPI)and Infection Risk Index. You have visibility as to where your risk is the highest and can make informed adjustments as needed.



About Us

GermSweep, a minority-owned business, uses a data driven, multi-layered strategy to mitigate surface and aerosol transmission of infectious diseases. Our services include Disinfection Services using electrostatic sprayers, a non-toxic disinfectant, high-touch and high-traffic wipe-down and ATP Surface Testing to confirm results. Our Planning Services are delivered by FEMA Certified Risk Mitigation experts.

The Well Building Standard™ version 2 (WELL v2™) is a vehicle for buildings and organizations to deliver more thoughtful and intentional spaces that enhance human health and well-being.

Monitors are sited at locations compliant with the following requirements:
a. Monitor density is at least one sensor per 3500 ft2 of occupiable space.
b. 3.6-5.6 ft above the finished floor at locations where occupants would typically be seated or standing.

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Real-Time, Cloud-Based Monitoring, Alerts & Reporting

Hosted on a FedRamp compliant cloud infrastructure, our solution provides actionable intelligence from more than a dozen sensors to allow responsible parties to take immediate action if a threat is detected; and assurance thatall the measures that are put in place to protect people's health are working as they should.

GermSweep makes it easy to monitor Air quality in seconds

Why Are We Better?

Fast & Easy

Our IoT Edge hardware is solution-ready, tightly integrated with the IoT Core (Cloud), and rapidly deployable with minimal on-site setup

Scalable

Our IoT Platform is extensible and future proof; it adjusts to your unique and evolving data application needs through a catalog of Bridge devices.

Actionable Interface

Our real-time data/analytics enable platform adopters to deliver industry solutions that produce efficiencies in people, processes and systems.

Customer Support

Our support team is quick to respond and here to help. Once you experience our intuitive web UI tools, you'll be off and running.

WELL-Building Standard

Stay Safe IAQ Monitoring adheres to the WELL Building Standard® version 2 guidelines, a performance-based system for measuring and monitoring features of a built environment that impact, support and advance human health and wellbeing.

BACnet Compatibility

Stay Safe IAQ Monitoring is BACnet compatible, a communication protocol for Building Automation and Control (BAC) networks developed by ASHRAE and is now both an ANSI and ISO standard protocol.

COOP Purchasing Agreement

NPPGOV serves public and non-profit markets as a cooperative purchasing agreement created through an RFP process conducted by a Lead Public Agency. GermSweep's publicly solicited contract number is PS21025.

Airborne Monitoring

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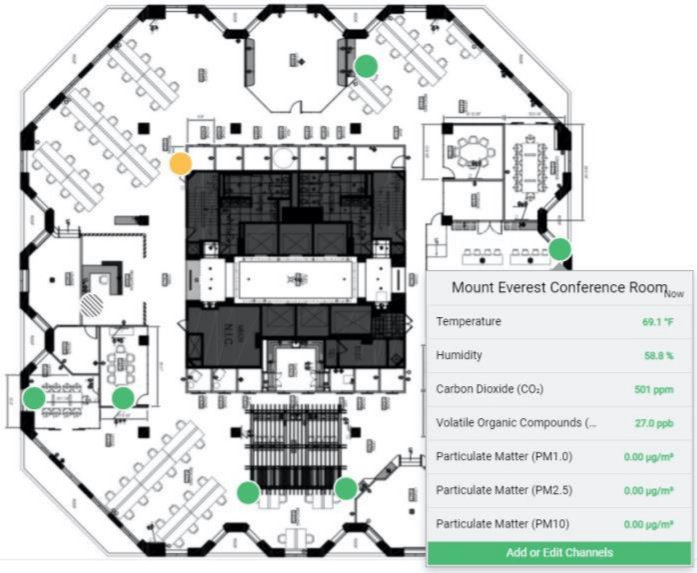
Indoor Air Quality Overview

Pinkston - Office Floor



Conference Room Air Quality

Conference Room — Now

Temperature	Humidity	CO_2	VOC	$PM_{2.5}$	PM_{10}
75.8 °F	49.1 %	516 ppm	35.0 ppb	2.00 µg/m³	2.00 µg/m³
warm	comfortable	good	excellent	good	good

Ventilation Performance — Now

99.0 %
Quality
Good

Conference Room Air Flow

Air Exchange Rate — Now

0.77 ACH
ACH
Below Threshold

Infection Risk Index — Now

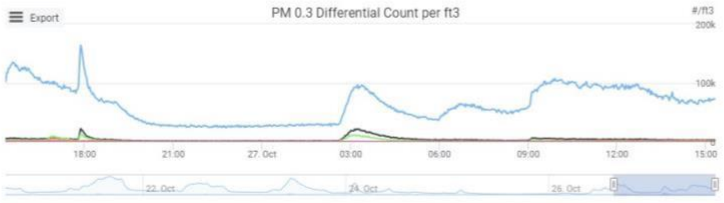
Medium risk
Room with 3 People every 30min
Above Threshold

Advanced Particulate Matter Monitoring

Particulate Matter - Count per ft3 — 6 months ago

PM 0.3	PM 0.5	PM 1.0	PM 2.5	PM 5.0	PM 10
72180 #/ft3	3239 #/ft3	1019 #/ft3	359 #/ft3	59.0 #/ft3	59.0 #/ft3
Good	Good	Good	Good	Good	Good

PM 0.3 Differential Count per ft3



Average Daily PM Count

IAQ-I Ionization Monitoring

Main Entry — Now

Temperature	Humidity	VOC	$PM_{2.5}$	PM_{10}
70.0 °F	36.3 %	280 ppb	0.89 µg/m³	0.89 µg/m³
comfortable	comfortable	moderate	good	good

Dining Room — Now

Temperature	Humidity	VOC	$PM_{2.5}$	PM_{10}
71.7 °F	32.0 %	307 ppb	0.88 µg/m³	0.88 µg/m³
comfortable	comfortable	moderate	good	good

Rehab Suite — Now

Temperature	Humidity	VOC	$PM_{2.5}$	PM_{10}
72.0 °F	36.3 %	223 ppb	1.01 µg/m³	1.01 µg/m³
comfortable	comfortable	moderate	good	good

Campus Ionization Levels — Now

Main Entry	Dining Room	Rehab Suite
9539 ions/cc	4737 ions/cc	1386 ions/cc
Good	Good	Good

Campus Ionization Averages