Healthy Schools Monitoring (HSM) Network

IDEAL CLASSMATE FOR INDOOR AIR-QUALITY MONITORING

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CREATING ENVIRONMENTS OF POSSIBILITY

Track the invisible threat in classrooms

In today's environment, the air children breathe has a profound impact on their growth and development. Moreover, as they return to school, it is critical that parents and caregivers feel reassured that their child is protected against environmental conditions that could potentially threaten their health and safety.

The need of the hour is an indoor air monitoring solution that scores high on safeguarding their healthy development. One that enables schools to focus on their core mission of education and provides peace of mind for educators and parents.

Acoem Australasia presents the Healthy Schools Monitoring (HSM) network. Delivering a holistic approach to total indoor air quality management, it is an accurate, simple, and effective solution that allows you to fulfill your duty of care and make critical decisions regarding your school and students quickly and efficiently.

Monitoring key pollution parameters

Carbon Dioxide (Co₂) - Higher the CO₂, in a crowded space, greater the chance for virus transmission. The level of CO2 measured can be used as a proxy for possible exposure to Corona virus.

Particulate Matter (PM) - The presence of atmospheric particulate matter (PM) creates a suitable environment for transporting the COVID-19 virus over greater distances.

Relative Humidity (RH) & Temperature (T) - Both humidity and temperature affect how long a virus or bacteria can survive in the air.

> *Proper maintenance of indoor air is more than a 'quality' issue; it encompasses safety and stewardship of your investment in students, staff, and facilities."*
> — *(US EPA)*

HS – 100

Sensor to cloud, real-time data monitoring

The HS-100 is the accurate and efficient classmate of Acoem's HSM network.

A multi-parameter air quality monitoring solution, it uses the best-in-class hyperlocal sensor technology, cloud software and an easy-to-use app that gives immediate and real-time access to data about environmental conditions in schools via any connected device.

A low-cost, intelligent monitoring network, it features real-time readings for the essential parameters which have the potential to increase the risk of virus transmission in a confined classroom environment.

Data dashboard with anytime, anywhere access

Air Quality Data over Wi-fi
Mains powered with integrated Wi-Fi data communications that connect using the existing school network.

Remote Access
Access real-time air quality data transmitted to a cloud-based web portal accessible by school staff & parents - from anywhere, anytime.

Traffic Light Warning
The interface is a clear & easy way to understand indoor air quality including virus/bacteria sustainability/risk using a simple traffic light system (Red, Orange, Green).

Plug-in & Forget
Effortless installation, operation & maintenance.

Smart Suggestions
Data can be combined into an Air Quality Index that provides recommendations for specific actions to be taken to improve indoor air quality, for example additional ventilation, heat, dryness etc.

Active Alerts
Staff receive SMS or email alerts in case of exceedances.

For the Greater Good
Collective data can be used for further government and/or academic research.

Monitor the air quality quotient of any indoor environment

The smart monitoring capabilities of Acoem's HSM network takes it beyond schools. As a stand-alone device it makes monitoring indoor air quality, as well as risk mitigation strategies, effortless – for any indoor environment.

Ideal for:

· Business workspaces
· Industrial parks
· Entertainment zones
· Hospitals
· Health & fitness centres

Indicator	Item	Explanations
Temperature	Measurement Range	0 ~ 40° C
	Accuracy	±1° C (Measured after 30 minutes under stable environment for 25 ±2° C, 50 ±10 % RH)
Humidity	Measurement Range	0 ~ 95 % RH
	Accuracy	± 8 % RH
$PM_{2.5}$	Measurement Range	0 ~ 1000 µg/m³
	Accuracy	≤ 100 µg/m³ : ±10 µg/m³ > 100 µg/m³ : 10 % readings (Refer to TSI 8530, 25 ±2° C, 50 ±10 % RH)
	Upgrade Range	🟢 Excellent: 0 ~ 35 µg/m³ 🟡 Good: 36 ~ 75 µg/m³ 🔴 Bad: 76 ~ 1000 µg/m³
CO_2	Measurement Range	400 ~ 5000 ppm
	Accuracy	± (50 ppm + 5 % readings)
	Grade Range	🟢 Excellent: 0 ~ 35 µg/m³ 🟡 Good: 36 ~ 75 µg/m³ 🔴 Bad: 76 ~ 1000 µg/m³

About Acoem

Acoem Australasia (Ecotech Pty Ltd) is an Australian environmental monitoring and data solution company with a global reputation for innovation in air quality protection and management. Established 45 years ago, it exports its technology and expertise to over 80 countries worldwide and is the trusted partner of environmental protection agencies, government authorities and leading universities around the world.

Together with 150 distributors, our 800+ employees work across 27 offices, 5 manufacturing facilities and 3 R&D centres in 11 countries, we provide trusted, holistic data solutions for customers worldwide. **Acoem links possibilities with protection.**

For more information, please visit **acoem.com**

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