

AirSuite's smart sensors help support educational leaders to leave no child behind.

Classrooms that are too noisy, hot, cold, or humid will negatively affect our ability and willingness to learn. Several studies show that the acoustics, air quality and temperature of indoor environments can impact academic performance.

The most preferred environment is mild in temperature, relatively bright and quiet, and has low carbon dioxide levels.

But without the right technology, it's hard to know how, where and when to intervene — or even where money and time is best spent for the most equitable results.

The answer is AirSuite's smart sensors: devices that enable schools to measure, identify, and improve their indoor environments.

Behind AirSuite's elegant technology is a simple and clean user experience — making it easy to install, use, and ultimately make smart evidence-based decisions.

With that said, let's discuss the top seven reasons why you should choose AirSuite.

1. Easy, quick, and cost-effective to install — access benefits within minutes.

In less than a minute, a beginner can install an AirSuite Sensor. In that short space of time, they enable schools and other educational facilities to make impactful and lasting changes.

AirSuite sensors use cellular technology (LTE) to connect to the Spark mobile network, so you can deploy them anywhere, even without Wi-Fi onsite. Each device is already set up with everything you need for your organisation. All you need to do is take it out of the box, put it on the wall, and your sensor will start transmitting to the Cloud immediately.

This is great for agencies as there's no large third-party installation costs. Great for schools as they can measure their indoor environments almost immediately. And great for students as they reap the benefits of safer, healthier learning spaces.

2. Easy to evaluate data that drives powerful decisions.

As well as temperature, noise and humidity, another insight AirSuite sensors capture is CO₂ levels.

This quote from a study published in 2022 shows how powerful a sensor with a real-time display is for teachers in the ECE sector:

“With monitors showing CO₂ level and temperature, staff are checking the monitors as we walk past or glance at it when we are at the right place, and overall, we are quite happy about the CO₂ level for most of the day. When the CO₂ level gets higher, we actively open the windows to improve it.”

This quote demonstrates the power of having easy-to-interpret, at a glance data that is readily accessible 24/7. For example, staff can decide if opening windows will be enough to solve the problem and mitigate the risks. Or they can escalate the problem to key decision makers who can then make a case for refurbishment or a new building.

* Direct quote from: Evaluation of Ventilation in Early Childhood Education and Care (ECEs) Centres. An analysis of 29 spaces at five ECEs in New Zealand.

3. Easy to update remotely.

Where other market players need physical devices in their office to perform software updates, AirSuite do that remotely. This means they perform customer-led improvements with minimal disruption and downtime for clients.

4. Easy to monitor real-time data and historical trends for smarter decision making.

The volume of data AirSuite's sensors produce is in the tens of millions.

But data on its own is useless. It needs to be displayed in a way that's meaningful and accessible. Powered by software that's created and updated by experienced designers, the data captured by AirSuite's sensors can be visualised in three ways:

- via the display panel on the sensor
- through a secure, cloud-based portal
- an app on any smart device.

The graphics and other visual representations allow users to see and monitor real-time data and analyse historical patterns. Presented in this way, it empowers users to make decisions based on quantitative data rather than instinct, biases, or following the status quo. This can be a game changer for education as decisions on where to invest are evidence based.

What's more, if certain variables are about to reach unsafe or unfavourable levels, the user gets an automated alert straight to their phone or another smart device so they can intervene immediately.

5. Easy to contextualise information for the big picture.

AirSuite can also overlay third-party data like weather or geography. One use of this is to test a hypothesis: they can look at the age of a building, overlay it with weather data and geographical insights and see if there is any correlation with performance. Discoveries from data have enabled schools and the Ministry to save millions of dollars by highlighting that some older buildings don't need to be rebuilt to improve their indoor environmental quality, they only require an upgrade in glazing, for example.

6. Easy and cost-effective to run.

AirSuite have been working with New Zealand's Ministry of Education for several years and are always innovating their products and services to suit changing requirements. They offer both a Wi-Fi variant and a battery-powered cellular device. This newer iteration isn't reliant on mains power to run, and it contains a long-life battery. If you have a school that could benefit from AirSuite Sensors, remind them they don't need to have a technical expert onsite to make it work.

7. Easy to compare sites for more equitable budgets

AirSuite devices capture tens of millions of data points that are instantly uploaded to the cloud and readily accessible for their clients. If you're a large organisation, maybe a government agency — with 10,000-plus devices spread across the country — you can instantly understand what's happened across all facilities and make specific targeted decisions.

This is good news for parents and communities too. If the government agency can see which schools are not performing well in terms of indoor environmental quality, schools have a much better chance of acquiring funding because decision makers have access to the evidence.

How AirSuite can help you.

AirSuite has provided thousands of sensors to New Zealand's Ministry of Education to improve the indoor environments of educational facilities across the country.

They have the capability to deliver similar outcomes for overseas educational facilities. With easy-to-install-and-monitor devices the end user is empowered to take the right steps to improve indoor conditions today and into the future — improving learning outcomes for children locally and around the world.

