whatif

Introducing

"AerisLite"

our latest masterpiece:
the cutting-edge
Indoor Air Quality
monitor, infused with
unrivalled intelligence
and connectivity.

This device sets a new standard for indoor air quality monitoring and management. Harnessing the power of advanced technologies like Thread and Zigbee, our device creates a harmonious ecosystem within your living spaces. Communicates with other smart devices, enabling a seamless integration that transforms your home or office into an oasis of purity. From detecting pollutants and monitoring temperature and humidity to ensuring optimal air circulation, our device is a testament to our unwavering commitment to your well-being.

CYBERSECURITY LABEL
✳
REGISTRATION ID:
CSA/IOTX0030
MORE INFO AT: www.csa.gov.sg/cls

Developed in Singapore

Sensors

Ensuring precise IAQ monitoring with our sensors.

Experience a breath of fresh air with our 8-sensor indoor air quality device
- the ultimate tool for monitoring and improving the air you breathe!

Temperature sensing can help maintain optimal temperature levels, reducing energy waste, and providing a comfortable working environment for employees while ensuring compliance with regulations governing indoor air quality.

Carbon dioxide (CO2) sensing can help ensure a healthy and safe indoor air quality by monitoring and controlling ventilation rates, reducing the risk of CO2 build-up and associated health problems while also improving energy efficiency and reducing operating costs.

Formaldehyde (CH20) sensing can help detect harmful levels of formaldehyde and other volatile organic compounds, ensuring a healthy and safe indoor environment for employees and visitors.

PM10 sensing can help identify the presence of harmful particulate matter, enabling timely corrective action and ensuring a healthy and safe indoor environment for employees and visitors.

PM2.5 sensing can help detect the presence of fine particulate matter, which can have adverse health effects, allowing for timely remediation and ensuring a healthy indoor environment for employees and visitors.

Total Volatile Organic Compound (TVOC) sensing can help identify the presence of harmful pollutants, allowing for timely remediation and ensuring a healthy indoor environment for employees and visitors

Humidity sensing can help maintain optimal humidity levels, reducing the risk of mold growth, improving occupant comfort and productivity, and ensuring compliance with indoor air quality regulations.

Nitrogen Oxides (NOx) sensing can help identify the sources of pollution, enablig targeted interventions and ensures compliance with indoor air quality standards. (Optional)

Integration

AerisLite is built to ensure security and integration capability. Through the available integration protocols, you can be assured of a seamless integration to most available platforms.

Integration with building management systems (BMS)

Through the use of MOTT, BMS can have access to data both locally and through the cloud depending on building's restriction to internet access. This opens suitability to sensitive locations where internet access is not allowed.

Alternatively, BMS can also integrate through cloud APIs that is offered.

Integration with mobile application or software

The AerisLite APIs allows streaming of indoor air quality data directly to any existing software that you like

Integration with other devices

Equipped with thread and zigbee radio, Aeris+ is capable to control certain brands of smart devices such as air purifier that can be used to address air quality issues in the event existing HVAC system is insufficient.

Comprehensive and Intuitive
Dashboard

View and manage all your IAQ data, using the bundled dashboard which can be accessed via any device with a web browser.

Clear Overview   **Floorplan View**   **Analyse Trends**

Customisable Threshold   **Notification**

Developed in Singapore

Specifications

Wireless Connectivity
802.11 a/b/g/n 2.4GHz, Thread*, Zigbee

Installation
Wall-mounted/ Table-top

Power
5V/2A USB C Adapter

Operating Temperature
0° C to 50°C

General
IAQ Sensor Specifications Integrations

Power consumption
Max 1.5w

Operating humidity (Non-condensing)
≤ 095% RH

OTA Firmware update
Supported

*Thread protocol requires compatible thread border router

Data

Frequency	Time Range	Intergration
Once per 15 seconds	Hourly, Daily, Weekly, Monthly, Yearly	MQTT, Rest API

Sensors

Sensors	Range	Resolution	Accuracy	Technology
Temperature	-40°C 100°C	0.1	±1°C	Micro-electromechanical system (MEMs)
Relative Humidity	0 to 100%	0.1	±3%	Micro-electromechanical system (MEMs)
PM2.5	0 to 999ug/m3	1ug/m3	±10ug/m3 (0 to 100) ±10% (100 to 1000)	Laser Scattering
PM10	0 to 1000ug/m3	1ug/m3	±10ug/m3 (0 to 100) ±10% (100 to 1000)	Laser Scattering
TVOC	0 to 5000ug/m3	1ug/m3	±25%	Metal Oxide semiconductor(MOS)
CO_2	0 to 5000ppm	1ppm	±3%+50ppm	Non-Dispersive Infrared (NDIR)
CH_2O	0 to 2000 ug/m3	1ug/m3	±10%	Electrochemical

Our New Screen and Battery Add-On
for the IAQ Device

We are excited to introduce the latest upgrades to our Indoor Air Quality (IAQ) device: an advanced screen and a high-capacity battery add-on. These enhancements are designed to elevate your experience and ensure seamless, long-term monitoring of your indoor environment.

Key Benefits

Advanced Screen Display

Real-Time Data Visualization

View real-time air quality metrics at a glance with our new high-resolution display. It provides clear and concise information on pollutants, humidity levels, and temperature.

User-Friendly Interface

The intuitive interface makes it easy to navigate through various settings and understand air quality trends.

Customizable Display

Personalize your screen settings to highlight the most critical data for your specific needs.

High-Capacity Battery Add-On

Extended Operation Time

The new battery add-on significantly extends the operational time of your IAQ device, ensuring uninterrupted monitoring even during power outages.

Portable Convenience

Perfect for use in multiple locations within your home or office without the constant need for recharging.

Eco-Friendly Design

The battery is designed for long life and minimal environmental impact, aligning with our commitment to sustainability.

These upgrades are part of our continuous effort to enhance our products and provide you with the best tools for maintaining a healthy indoor environment. Whether you are concerned about allergens, pollutants, or simply want to ensure optimal air quality, our IAQ device with the new screen and battery add-on is the perfect solution.

We are committed to delivering innovative solutions that meet your needs. Explore the enhanced capabilities of our IAQ device and experience the difference these upgrades can make in your daily life.

Enerscreen

Dimension		45mm*75mm*34mm
Battery	Technology	Li-Ion
	Voltage	3.7V
	Capacity	6000maH
Screen	Technology	TFT colour LCD
	Size	1.8"
	Pixel Size	128x160 pixels
	Colour	8bit colour (16,777,216 shades