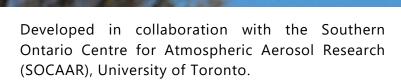
# Advanced, Accurate and Affordable **Air Quality Monitoring**

Robust, Compact, and Real-time

Continuous Ambient Air Quality Monitoring Micro-station



Setting the standard for real-time air quality monitoring, AirSENCE is a proven solution backed by cutting-edge technology with 35+ years of expertise in signal and data processing. Trusted by customers across five (5) continents, AirSENCE fulfills the needs of Smart Cities, Industries, and beyond

AirSENCE redefines air quality monitoring by overcoming sensor drift and degradation through innovative fastresponse, multi-parameter sensor array architecture. Enhanced by robust machine learning and data fusion, **AirSENCE** delivers performance comparable conventional monitoring stations at just a fraction of the cost. Its compact footprint, onboard processing, and userfriendly operation make AirSENCE ideal for integrating into IoT networks, delivering real-time ambient air monitoring with unmatched efficiency and accuracy.

#### Customizable, Intuitive, Real-time Visualization





### **Key Advantages**

AirSENC



**Accurate** & Precise 1



Real-time **Data & Alerts** 



**Calibration** 



Active Sampling



On-board **Processing** 



Maintenance



Cost **Effective** 



Long Sensor Lifespan (2yrs)



Weather-Proof Measurements



Remote Access



**Local Data** Storage (5yrs)



**Global IoT** SIM Card



Integrity <sup>2</sup>



**Direct Data Transfer** (Device to Customer)<sup>3</sup>

- 1. Aligns with EU and US EPA standards
- 2. Serialized binary messages preserve data in transit
- 3. Send data to customer without intermediary servers

### **Applications**





Real-time air quality alerts for residents, particularly to those sensitive to air pollution



Fuel groundbreaking research with precise, hyperlocal data, empowering scientists, researchers, and students



Analyze emission patterns of pollutants and provide a safe and healthy work environment



Detect and localize wildfires early by monitoring airborne markers, ensuring community safety and enabling rapid response

#### Currently deployed in 23 countries across 5 continents



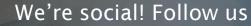
# Specifications

Air Quality Parameters	AQI/AQHI, CO, CO <sub>2</sub> , H <sub>2</sub> S, NO, NO <sub>2</sub> , O <sub>3</sub> , PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>4</sub> , PM <sub>10</sub> , TSP, TPC, SO <sub>2</sub> , VOC, CH <sub>4</sub> , NH <sub>3</sub> , & more
Environmental Parameters	Temperature, Humidity, Pressure, Light, Noise, Wind, Rainfall
Power Supply	12 or 24 VDC, PoE support, Solar & Battery (optional)
Power Consumption	3.5W (typical), 5W (max)
Dimensions & Weight	264 x 213 x 183 mm; 2.2 kg
Communication	Ethernet, Wi-Fi, Cellular, LoRaWAN, Modbus over RS485 or TCP/IP
Enclosure	Polycarbonate, NEMA 4/4X with IP65
Certification	CE
Operating Environment	Outdoor or large enclosed environments

## Deployments

Join AirSENCE as a distributor, project partner, channel partner, or other collaborator, to reduce GHG emissions, improve air quality, and create a better and sustainable future.

AirSENCE technology is validated against standard reference analyzers for high accuracy.





Toronto, Ontario, Canada



+1 (416)-923-4425



