Airscan Air Quality



Air Quality Monitoring Solution



Product Introduction

The Airscan Air Quality Monitoring solution is a low-cost accurate system that o ers the ability to build a high-density ambient air quality network that records data in real-time. It is an out of the box solution for urban air quality monitoring.

Poor air quality can have a wide range of negative impacts on our health, from respiratory and cardiovascular problems to neurological and reproductive issues, and even an increased risk of cancer. Airscan o ers the perfect low cost solution for every environment.

- Low-cost air quality sensor, monitoring levels of NO2, O3, CO, SO2, PM2.5 &10, heat & humidity
- Low power consumption with battery power management options available : 240v/110v mains option, battery power/solar option
- Full range of communication proto- cols including, 4G/5G, Wi-Fi, Ethernet/- POE, NB-IOT and LoRaWAN
- Easy to replace sensor unit allows unit to be moved and upgraded.
- Custom heavy duty ruggedized (IP66) rated, 4mm thick, UV rated, UL94-VO re retardant, protected from dust and capable of withstanding wet weather.
- Real-time data presented onto GUI and downloadable data











CONSTRUCTION

RAILWAYS

PUBLIC SECTOR

RESIDENTIAL

INDUSTRIAL



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Airscan AQM Benefits



Optional Acoustic sound module monitoring decibel levels



Data - Online management dashboard collects and displays data in real-time, API available for 3rd party integration



Additional GPS Module can be added for the powered version



Can include optional Journey Time sensors for monitoring tra c congestion, average journey time and speed



Remote software enables units to be accessed for software updates and troubleshooting



Expansion options include variety of addition sensors including NO, H2S, CO2, NH3, VOCs



Security – All data end to end encr ypted

Data sent to cloud servers and displayed on Airscan Dashboard in real-time



GSM 4G/5G, NB-IOT, LoRaWAN, WiFi and Ethernet communications available

Sensor Specification

Category

Details

Temperature Humidity -45 to 125 deg C ±0.2 deg C (0 to 100%) ±2%

Particle Matter (PM1.0 | PM2.5 | PM4 | PM10)

Particle detection size range*	Mass concentration: PM1.0, PM2.5, PM4 & PM10
	Number concentration: PM0.5, PM1.0, PM4 & PM10 0.3µm
Mass concentratation accuracy	±10 μg/m3 @ 0 to 100 μg/m3 ±10 μg/m3 @ 100 to 1000 μg/m3
Mass concentratation range	1 to 1000 μg/m3

Electrochemical Sensor options:

NO2 SO2	0-5,000ppm 0-10,0-00ppb
CO	0-10,0-00ppb
O ₃	0-2,000ppb
CQ	0-5,000ppm
NO	0-5,000ppb
H2S	0-2,000ppm
NH3	0-50ppm
VOCs	0-3,000ppm

*PMx de nes particles with a size smaller than "x" micrometers (e.g., PM2.5 = particles smaller than 2.5 µm).

**Speci ed for PM2.5 at 25 °C using potassium chloride salt particles and the TSI DustTrakTM DRX Aerosol Monitor 8533 as a reference.

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Physical Specification

Airscan Hardware	Details
Environment Operating range:	-18 to 50 Centigrade
Power Draw	<350 mA
Dimensions	19.5cm x 16cm
Weight	0.75kg

Sensors are shipped fully calibrated and baselined using a local DEFRA monitoring station as a reference.

Airscan Electrochemical sensors have a life span of 24mths when they will need to be replaced. Particulate Matter sensor has a life span of >5 years

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Data taken from Airscan unit co-located at the DEFRA Watford static monitoring station.



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