



Airscan AQM

The Innovative Air Pollution Monitoring System

The Airscan Air Quality Monitoring module from Iknaia is a low-cost mobile air quality monitoring system, which uses high-performance, reliable, low-power, gas sensors to detect a range of noxious gases in the atmosphere.

Unlike previous static systems, the Airscan AQM system can easily be moved around to enable Environmental Teams to collect data in multiple locations. Its linked to the Airscan Journey Time monitoring system which will therefore enable you to monitor journey times on major routes and also assess the impact that traffic congestion is having on the air we breathe.

Ideal for use by Local Authorities, Construction Companies and Local Schools for Science Projects.

- The impact of public exposure to particulate matter alone has been estimated to reduce average life expectancy in the UK by around six months.
- 40k deaths each year due to Air Pollution in the UK alone
- 6.8m (11.6% of all global deaths) attributed to Air Pollution
- Air Pollution kills more people each year than Aids & Malaria combined
- UK National AQ net has approx. 150 automatic monitoring locations—1 location per 500,000 people

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Real-Time Air Quality Data

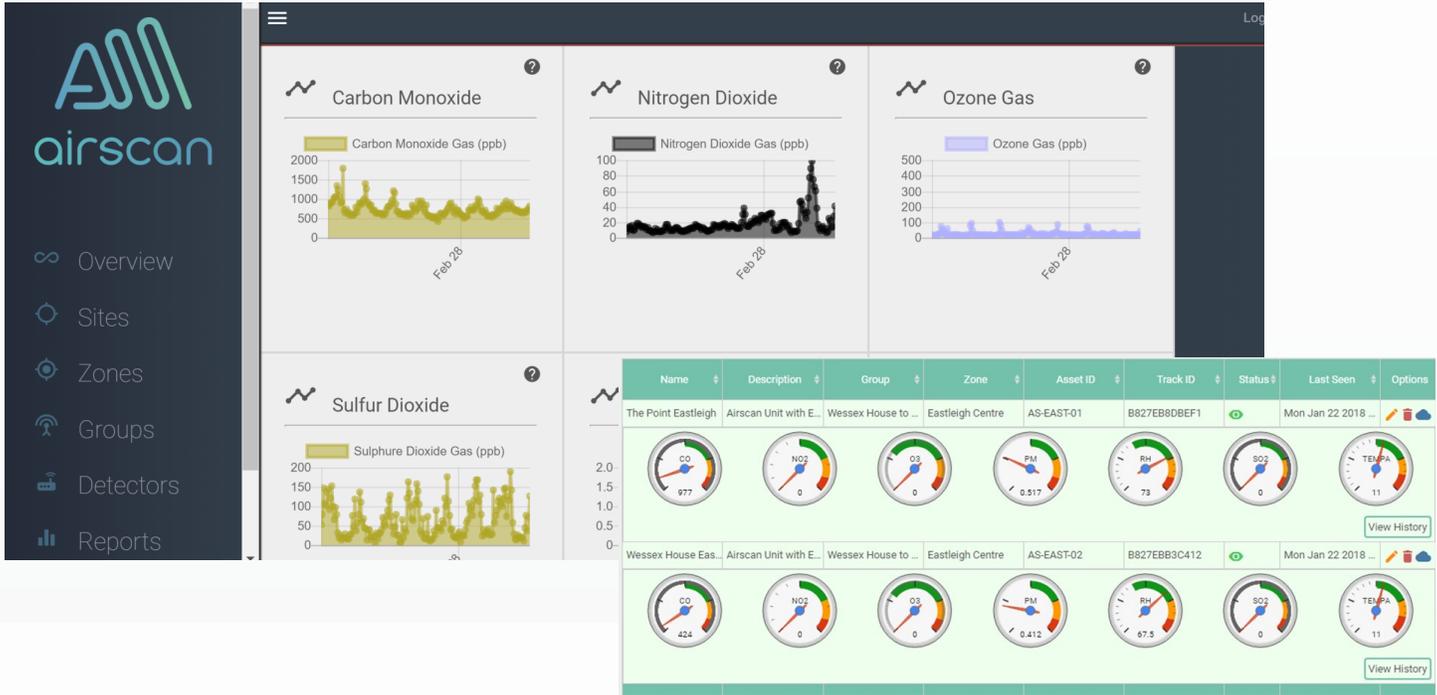
The Airscan Air Quality Module records real-time ambient air quality measurements that can offer route changing advice to motorists to minimise driver and passenger exposure to poor air quality. It can also feed information into air quality databases for a wide variety of operations managements system.

Airscan AQM can enable Local Authorities to achieve their clean air targets and also give them more depth knowledge of traffic congestion and its impact.

Data is transmitted to our cloud hosted servers using 3G/4G sim cards and provides a real-time view of traffic congestion and air quality.

Airscan has its own internal battery pack, but can be powered using solar or a normal power supply. It also comes with a range of mounting brackets to attach to lampposts or other roadside equipment.





Hardware

Injection moulded and heavy duty ruggedized IP66 rated protected from dust and capable of withstanding wet weather.

Capacity for up to 8 digital gas sensors – CO, SO₂, O₃, NO₂ as standard

Particulate matter / dust sensor down to and below PM_{2.5} (2.5ppm)

Environmental sensors – temperature, humidity and atmospheric pressure

Connects to Airscan Hub unit via single serial communications cable

Powered directly from Airscan Hub unit

Communication to the server via Airscan unit which can communicate via LoRaWAN, 4G LTE or Ethernet
Low power consumption with battery power management with optional solar inputs to suit any applications.

Software

Cloud hosted data presented in real time onto a web management interface optimised for PC, tablet and all mobile devices.

Self-service dashboard enables Airscan AQM to be set up easily and quickly on site.

Provides quick view dials and more in-depth graphs in real-time and full downloadable reports available.

API to enable data to be published to and fully integrated into third party applications.

Compatible with multiple third party products including variable message signs.

Fully integrated into the Airscan Journey Time system to monitor congestion and traffic levels .

One single dashboard provides Airscan Journey Time data together with Air Quality