



## Clean Air

'If you can't measure it, you can't improve it'

- Lord Kelvin

The World Health Organization estimates that 92 per cent of the world's population live in areas with unsafe levels of air pollution, with outdoor pollution linked to around three million deaths every year. In London alone, Mayor Sadiq Khan has identified the city's bad air as the most significant environmental issue facing the capital.

The UK is in a position of strength when it comes to air quality data, with Defra operating a comprehensive national monitoring system. This high accuracy network is supplemented by monitoring at local authority level, but this also comes with a high-cost.

Low-cost air quality sensors are attracting more and more attention. They offer air pollution monitoring at a lower cost than conventional methods, making air quality monitoring possible in many more locations.

### Airscan Air Quality Module

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. As standard it monitors CO, SO<sub>2</sub>, O<sub>3</sub>, NO<sub>2</sub>, PM<sub>2.5/10</sub>, Temperature, Humidity and atmospheric pressure.

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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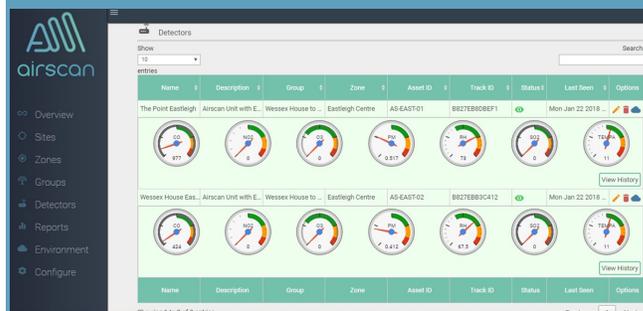
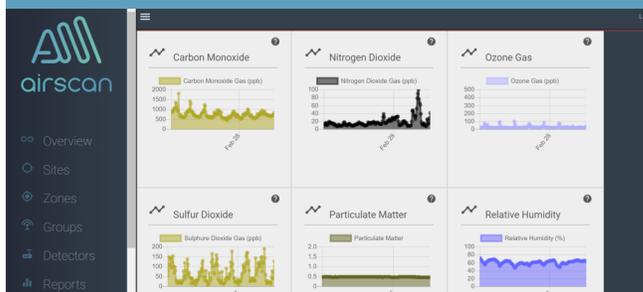
Eastleigh is the 3rd largest district in Hampshire with a population of approx. 125,000 people (2011 National Statistics Consensus)

It currently has two static monitoring stations at Southampton Road and Steele Close - that's 1 per 62,500 people.

The Council also monitors nitrogen dioxide (NO<sub>2</sub>) concentrations at 41 sites across the borough using diffusion tubes.



## Case Study



Eastleigh Borough Council has a duty to monitor Air Pollution throughout the Borough. They already has several real time static monitoring stations in locations that are chosen to target areas where pollution is expected to be high.

Working with Airscan AQM the Council were able to monitor air quality in multiple locations and see real-time changes in air pollution as it happened. In addition data collected from the Airscan Journey Time system could also be viewed alongside the Air Quality data to enable the Council to view traffic congestion alongside.

This proved to be a very low cost effective tool for the local authority to assist in the management of air quality.

