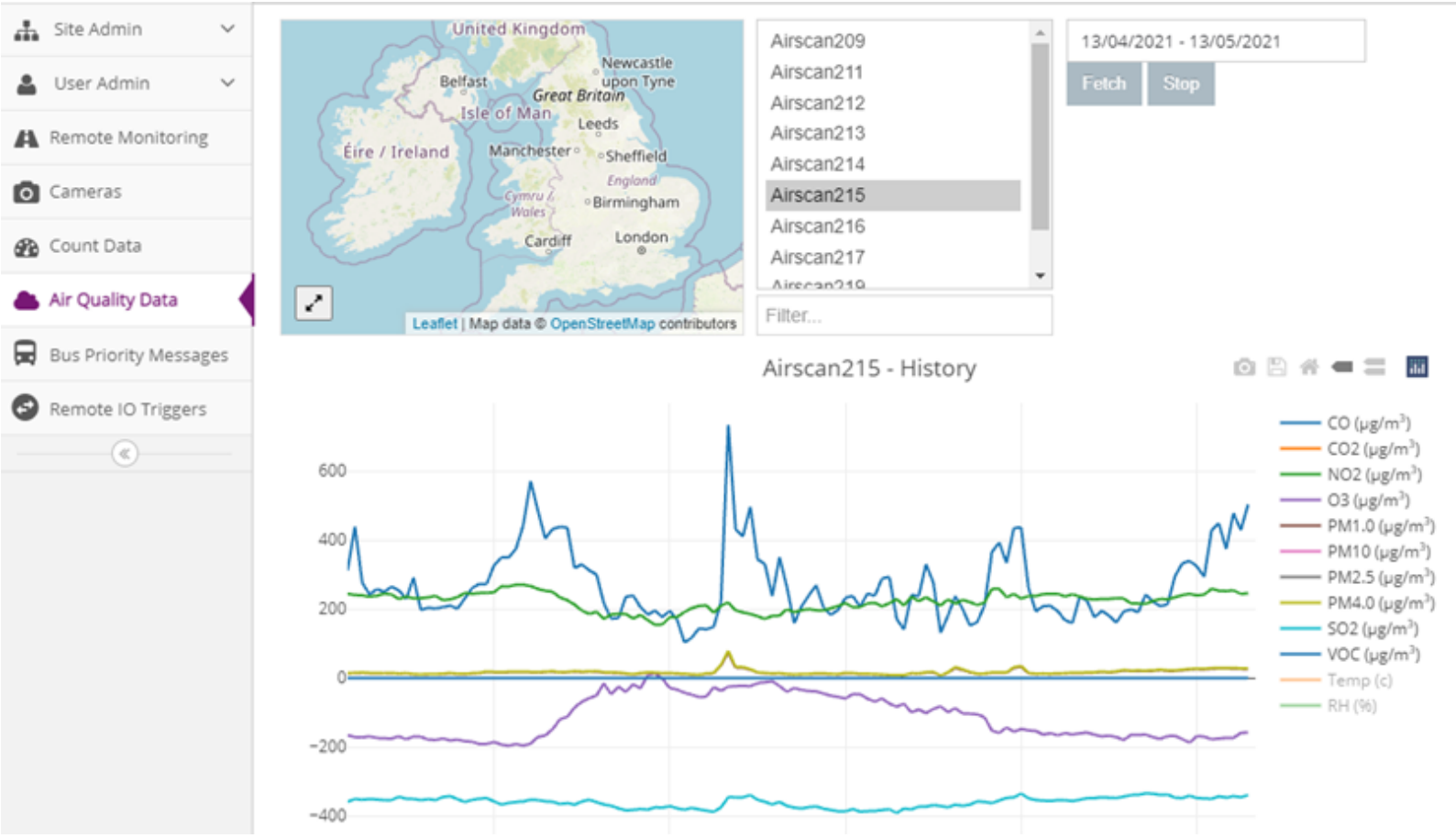
Data Sheet: **Telent—Optima Hub —Air Quality**



Optima Hub - Air Quality

The Telent Optima Hub is managed and hosted by Telent. The Air Quality module adds the integration of pollution sensors allowing for the collection and analysis of data on a wide range of gases and particulates.

Overview

The Telent Optima Hub is capable of monitoring traffic signal controllers from any manufacturer and the addition of Airscan pollution sensors to the system gives the opportunity to build a high-density ambient air quality network that records data in real-time. Airscan is an out of the box solution for urban air quality monitoring.

The integration of the air quality data into the intuitive and simple web based Optima Hub system means that everything is available in one place and data can be displayed, reviewed and exported as .csv files for further analysis.

Features

- Integrated into the Optima Hub GUI
- Sensors available
  - Carbon Monoxide CO
  - Sulphur Dioxide SO_2
  - Ozone O_3
  - Nitrogen Oxide NO
  - Nitrogen Dioxide NO_2
  - Hydrogen Sulphide H_2S
  - Particulates—PM1, PM 2.5, PM4, PM10

Centralised data collection

The Optima Hub collects the data from all of the sensor sites and allows it to be displayed graphically allowing trends and hot spots to be identified. Data can be exported as .csv files allowing it to be analysed further or imported into other tools or systems.

Sensor Hardware

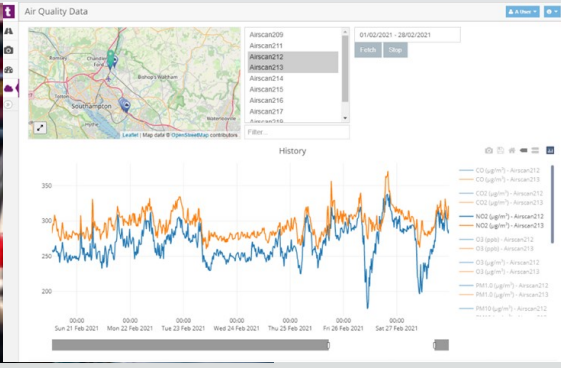
- Compact
- Easy to install on traffic signal poles or lamp columns
- Injection moulded enclosure, IP66 rated
- Operating temperature –18 to +50 °C
- Mobile or ethernet communications
- 24 month lifespan of sensor modules

Summary:

Telent Optima Hub pollution sensor integration provides cost effective, real time monitoring of a wide range of gases and particulates.

Benefits:

- Cost effective provision of air quality monitoring
- Seamless integration with the Optima Hub
- Hosted system—no additional IT to manage
- Ability to access from a variety of devices
- Proven technology with over 70 units installed



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