

Digital Solutions for Global Green Challenges



Airscan Outdoor 01-GSM

- **Nitrogen Dioxide (NO2)** 0-5,000ppm
- **Sulphur Dioxide (SO2)** 0-10,000ppb
- **Ozone (O3)** 0-2,000ppb
- **Carbon Monoxide (CO)** 0- 10,000ppb
- **Particulate Matter PM1, 2.5, 4 &10** (0-1,000µg/m3 MCERTS Approved)
- **Temperature** (-4 to 125 °C), **Humidity** (0-100%),
- **Enclosure** : Custom heavy duty ruggedized (IP66) rated, 4mm thick, UV rated, UL94-VO retardant, protected from dust and capable of withstanding wet weather
- **Communications** : International Router – 4G/5G Sim Card
- **Requires Power** (12v, 110v, 240v)
- **Optional Extras:**
 - Journey Time sensors (Bluetooth & WiFi anonymous mac address scanning)
 - Acoustic Sound – Measuring decibel levels
- **Lifespan** = Gas sensors (NO2, CO, SO2, O3 will need changing after 2 years. PM sensor and electronics = >8years)
- **Remote Access** included for software updates and sensor calibration



Dimensions : 19.5cm x 16cm
Weight : 0.75kg



Airscan Outdoor 02-LoRaWAN

- **Particulate Matter** PM1, 2.5, 4 &10 (0-1,000µg/m3 MCERTS Approved)
- **Temperature** (-4 to 125 °C), **Humidity** (0-100%),
- **Enclosure** : Custom heavy duty ruggedized (IP66) rated, 4mm thick, UV rated, UL94-VO retardant, protected from dust and capable of withstanding wet weather
- **Communications** : LoRaWAN options for 433M/470M/868M/915M frequency. Connects to any LoRaWAN Gateway
- **Requires Power** (12v, 110v, 240v)
- **Lifespan** = PM sensor and electronics = >8years



Dimensions : 19.5cm x 16cm
Weight : 0.75kg

Airscan Outdoor 03 – NB-IOT

- **Nitrogen Dioxide (NO₂)** (0-10ppm)
- **Carbon Monoxide (CO)** (0-1,000ppm)
- **Temperature** (-10-50°C), **Humidity** (0-90%)
- **Ozone (O₃)** (0-10ppm),
- **Particulate Matter PM₁, 2.5, 4 & 10** (0-1,000µg/m³ MCERTS Approved)
- **Communications : NB-IOT, LTE-M, 2G** (NB-IOT Data Sim required)
- **Enclosure** : Custom heavy duty ruggedized (IP66) rated, 4mm thick, UV rated, UL94-VO re retardant, protected from dust and capable of withstanding wet weather
- **Lifespan** = Sensor and electronics = >8years – Recalibration required every 2 years



Dimensions : 19.5cm x 16cm
Weight : 0.75kg

Airscan Indoor 04 - LoRaWAN

- **Temperature** (-10-50°C), **Humidity** (0-90%)
 - Reads sensors every 10 mins transmits every half hour (configurable)
- **Communications** : LoRaWAN options for 433M/470M/868M/ 915M frequency. Connects to any LoRaWAN Gateway
- **Requires Power** (12v, 110v, 240v)
- **Enclosure** Square IoT Enclosure, 86x86x25.5mm, ABS UL94-V0 construction made from 100% recyclable material, UK Manufactured.
- **Lifespan** = Sensors and electronics = >8years



Dimensions : 86mm x 86mm x 25mm

Airscan Indoor 05 – NB-IOT

- **Temperature** (-10-50°C), **Humidity** (0-90%)
 - Reads sensors every 10 mins transmits every half hour (configurable)
- **Carbon Dioxide** (CO2) 1-1000ppm
- **Communications** : **NB-IOT, LTE-M, 2G** (NB-IOT Data Sim required)
- **Requires Power** (12v, 110v, 240v)
- **Enclosure** Square IoT Enclosure, 86x86x25.5mm, ABS UL94-V0 construction made from 100% recyclable material, UK Manufactured.
- **Lifespan** = Sensors and electronics = >8years



Dimensions : 86mm x 86mm x 25mm

Airscan Indoor 06 - LoRaWAN

- **Temperature** (-10-50°C), **Humidity** (0-90%),
- **Volatile Organic Compounds** : VOCs (1-500 VOC index),
- **Nitrogen Oxides** : NOx (1-500 index),
- **Carbon Dioxide** : CO2 (0-40,000ppm),
- **Particulate Matter** : PM1, PM2.5, PM4 & P10 (0-1000µg/m3),
- **Communications** : LoRaWAN options for 433M/470M/868M/ 915M frequency. Connects to any LoRaWAN Gateway
- **Requires Power** (12v, 110v, 240v)
- **Lifespan** = PM sensor and electronics = >8years
- **Enclosure** : Hex-Box IoT Enclosure, made from 100% recyclable material, UK Manufactured.
- **Lifespan** = >2 years



Dimensions : 146mm x 130mm x 45mm

Airscan Indoor 07 – NB-IOT

- **Temperature** (-10-50°C), **Humidity** (0-90%),
- **Volatile Organic Compounds** : VOCs (1-500 VOC index),
- **Nitrogen Oxides** : NOx (1-500 index),
- **Carbon Dioxide** : CO2 (0-40,000ppm),
- **Particulate Matter** : PM1, PM2.5, PM4 & P10 (0-1000µg/m3),
- **Communications** : **NB-IOT, LTE-M, 2G** (NB-IOT Data Sim required)
- **Requires Power** (12v, 110v, 240v)
- **Lifespan** = PM sensor and electronics = >8years
- **Enclosure** : Hex-Box IoT Enclosure, made from 100% recyclable material, UK Manufactured.
- **Lifespan** = >2 years



Dimensions : 146mm x 130mm x 45mm

Airscan Indoor 08 - LoRaWAN

- **Temperature** (-10-50°C), **Humidity** (0-90%), **Pressure** (300 - 1100hPa)
- **Volatile Organic Compounds** : VOCs 0-1,000ppm
- **Nitrogen Dioxide** : NO₂ (0.05 – 10ppm)
- **Carbon Dioxide** : CO₂ (0-40,000ppm)
- **Carbon Monoxide** : CO (1-1,000ppm)
- **Ozone** : O₃ (0-10ppm)
- **Particulate Matter** : PM₁, PM_{2.5}, PM₄ & P₁₀ (0-1000µg/m³)
- **Communications** : LoRaWAN options for 433M/470M/868M/ 915M frequency. Connects to any LoRaWAN Gateway
- **Requires Power** (12v, 110v, 240v)
- **Enclosure** : Hex-Box IoT Enclosure, made from 100% recyclable material, UK Manufactured.
- **Lifespan** = >2 years



Dimensions : 146mm x 130mm x 45mm

Airscan Indoor 09 NB-IOT

- **Temperature** (-10-50°C), **Humidity** (0-90%), **Pressure** (300 - 1100hPa)
- **Volatile Organic Compounds** : VOCs 0-1,000ppm
- **Nitrogen Dioxide** : NO₂ (0.05 – 10ppm)
- **Carbon Dioxide** : CO₂ (0-40,000ppm)
- **Carbon Monoxide** : CO (1-1,000ppm)
- **Ozone** : O₃ (0-10ppm)
- **Particulate Matter** : PM₁, PM_{2.5}, PM₄ & P₁₀ (0-1000µg/m³)
- **Communications** : LoRaWAN options for 433M/470M/868M/ 915M frequency. Connects to any LoRaWAN Gateway
- **Requires Power** (12v, 110v, 240v)
- **Enclosure** : Hex-Box IoT Enclosure, made from 100% recyclable material, UK Manufactured.
- **Lifespan** = >2 years



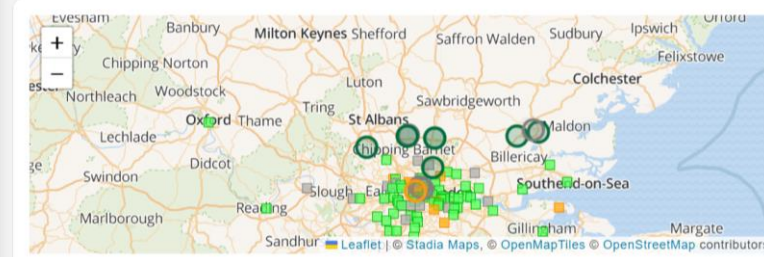
Airscan Handheld 10 NB-IOT

- **Nitrogen Dioxide (NO₂)** (0-10ppm)
- **Carbon Monoxide (CO)** (0-1,000ppm)
- **Temperature** (-10-50°C), **Humidity** (0-90%)
- **Particulate Matter** PM1, 2.5, 4 & 10 (0-1,000µg/m³ MCERTS Approved)
- **Communications** : NB-IOT, LTE-M, 2G (NB-IOT Data Sim required)
- **Enclosure** : Custom heavy duty ruggedized (IP66) rated, 4mm thick, UV rated, UL94-VO re retardant, protected from dust and capable of withstanding wet weather
- **Lifespan** = Sensor and electronics = >8years – Recalibration required every 2 years
- Battery operated >12mths



Online Dashboard

- Real-time overview of all sensors
- Live map showing pollution levels from Airscan
- DEFRA data feeds displayed showing pollutant levels from AURN stations
- Quick and easy graphs show each pollutant level
- Downloadable data format .csv
- Multi-layer user permissions (ie Overall Admin, Manager, Client etc)
- API available and can fully integrate into 3rd party systems



2 Units Missing Coordinates

Pollutant data

On this page you can use the map to see your detectors, click on one of the circles for more information. Also on the map are Defra Air Quality monitoring stations, marked as a grey box, hover over them for more info. You can also click anywhere on the map and get the nearest and latest defra information in this box.

Device Name	Last Tra
ES007 - A12 - VMSC 302	6/15/23,
IKN-Demo-15	6/15/23,
Telnet 0006 (885228ED)	6/15/23,
Four Swannes School Reception	6/15/23,
University of Cambridge 01	6/15/23,

TOTAL
DEVICES:
40

ONLINE
DEVICES:
22

OFFLINE
DEVICES:
18



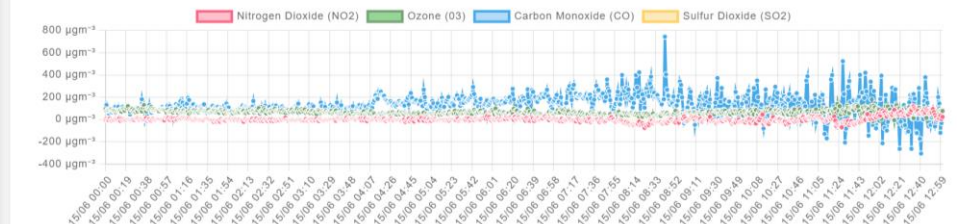
Engineering

Pollutants

Select a Parameter to view in more detail

Please Select a Parameter

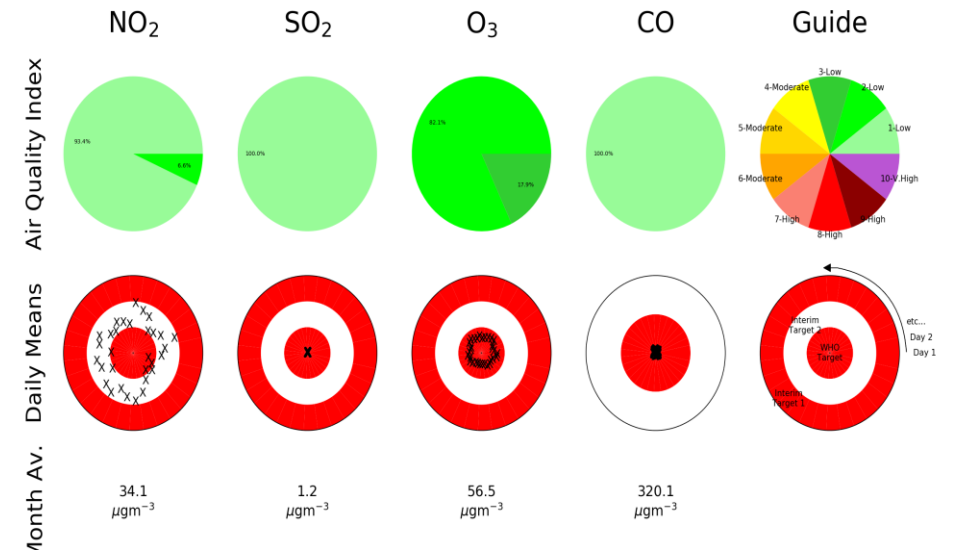
Today Yesterday Week Advanced Search



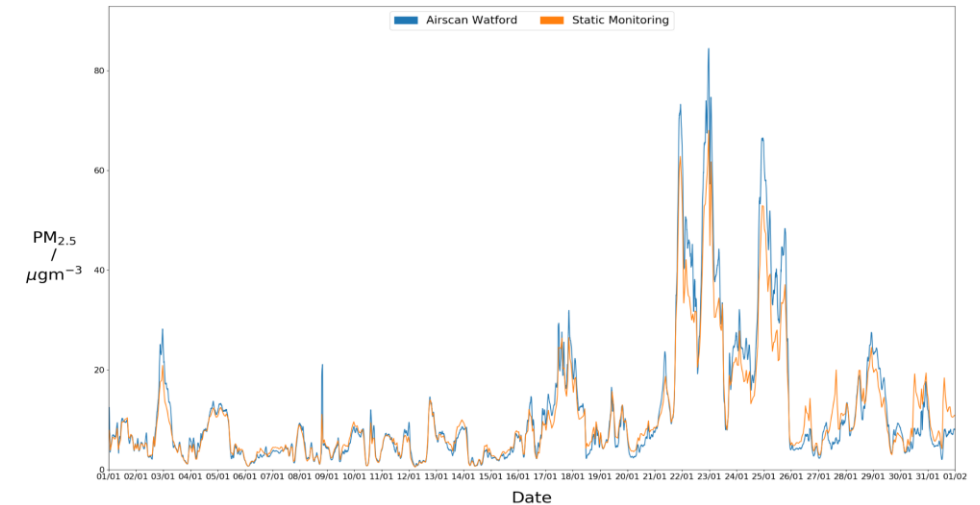
Software

- Read sensors every second (configurable)
- Transmit data every minute to upload to the cloud (configurable, based on power options)
- Data visualisation is fully customisable to customer needs – multilingual /rebranded
- Inhouse data scientists, data visualisation and software skills, small agile business, pedigree
- Federated AI models deployed at the edge to monitor sensor 'drift' and optimise data
- Airscan sensors come calibrated, they are then baselined against a DEFRA reference source to ensure accuracy of data

00 Steele Close : 01/03/2022 - 31/03/2022



Watford Town Hall PM_{2.5} / μgm^{-3} : 01/01/2023 - 31/01/2023



Opportunities

- Full Reseller Programme and Support
- Provide a full IOT solution Multi-purpose sensor networks
- Complete re-brandable products
- Fully integrate into 3rd party solutions
- All our products are manufactured here in the UK



Monitor. Measure. Manage

Digital Solutions for Global Green Challenges

An aerial photograph of a city, likely New York City, with a large, glowing blue digital globe centered over the city. The globe is surrounded by various green hexagonal icons representing different sustainable technologies and concepts, such as wind turbines, solar panels, recycling, and energy efficiency. The overall image has a green and blue color scheme, emphasizing environmental and digital themes.