Digital Solutions for Global Green Challenges

airscan

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, 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)
- **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

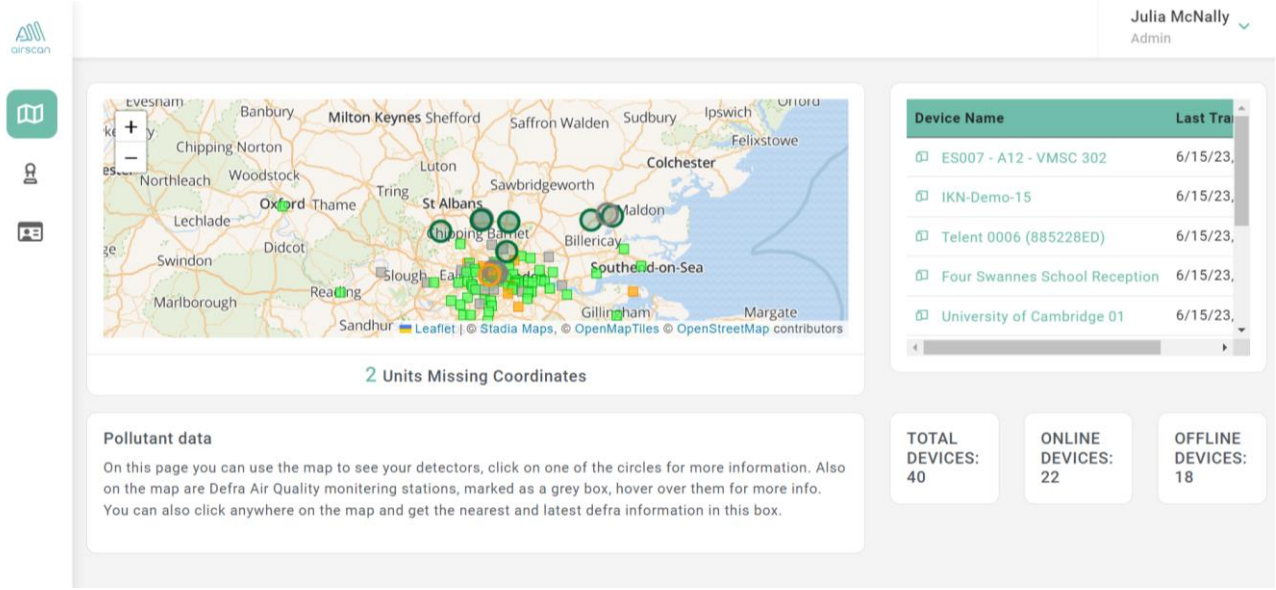
- **Temperature** (-10-50°C), **Humidity** (0-90%), **Pressure** (300 - 1100hPa)
- **Volatile Organic Compounds** : VOCs 0-1,000ppm
- **Nitrogen Dioxide** : NO2 (0.05 – 10ppm)
- **Carbon Dioxide** : CO2 (0-40,000ppm)
- **Carbon Monoxide** : CO (1-1,000ppm)
- **Ozone** : O3 (0-10ppm)
- **Particulate Matter** : PM1, 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)
- **Enclosure :** Hex-Box IoT Enclosure, made from 100% recyclable material, UK Manufactured.
- **Lifespan** = >2 years

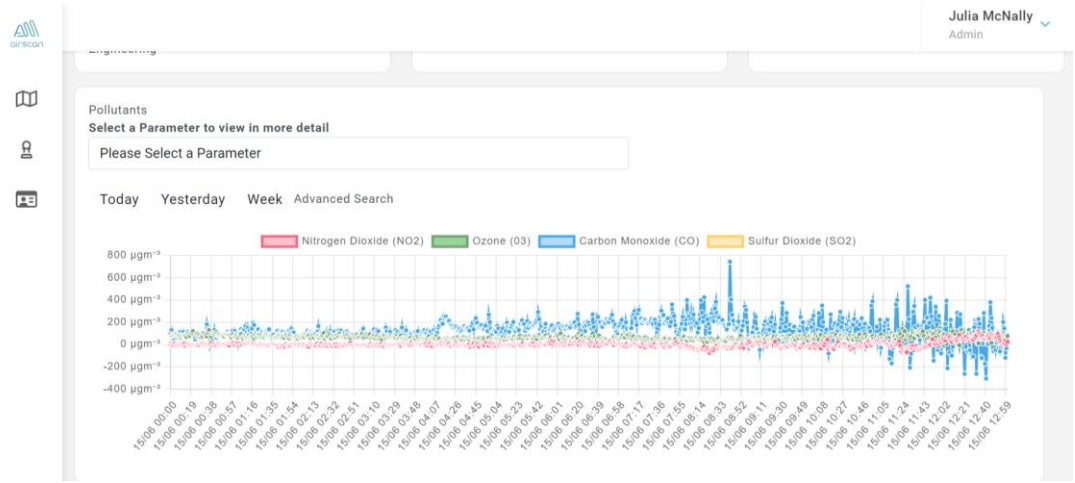
Airscan Handheld 10 NB-IOT

- **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

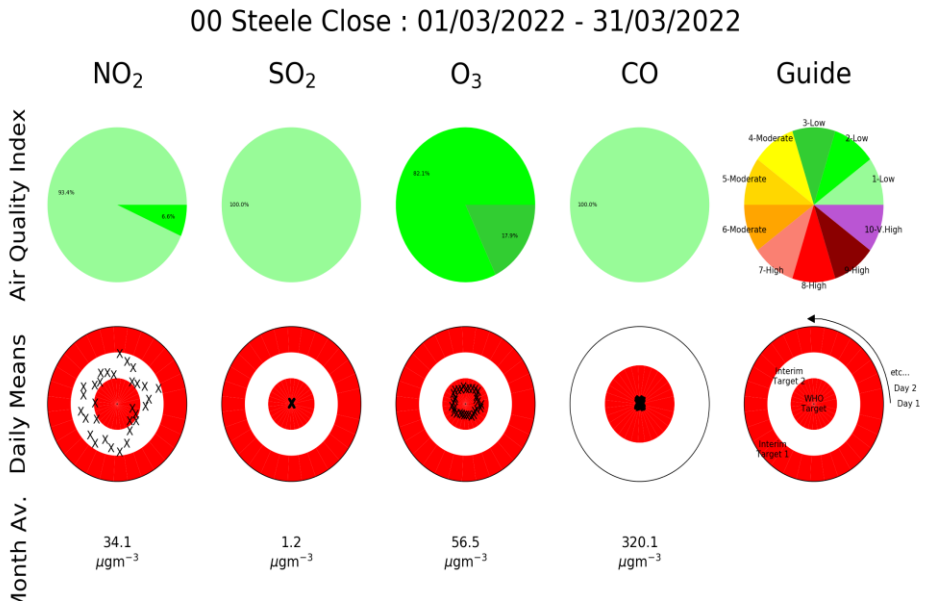


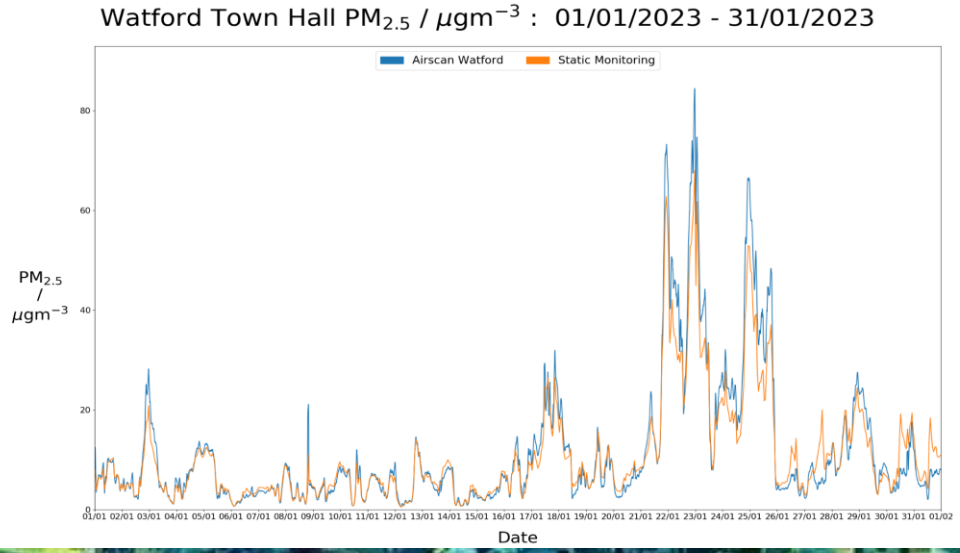


Software

- 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





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

MADE IN BRITAIN®

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