

How it works

Air Quality Sensor

www.aardra.co.uk



Step 1

Each sensor unit is flexible from measuring a single to multiple types of gas/pollutants. The sensor has the capacity to measure PM1.0, PM2.5, PM4 PM10, NO, NO2, O3, CO2, VOC, Temperature, Humidity and Pressure.

Pollution increasing rapidly

Step 2

For optimum performance, it is recommended to calibrate the sensor against industrial standard reference data either at a government reference station or at an approved lab facility. This process would need to be repeated between 12-24 months, subject to the exposed gas concentration.



Step 3

Place the sensor at the desired location where the gas/pollutants measurement is required.

Step 4

Switch ON the sensor device so that the sensor elements can start the stabilising process. This process can take several hours till the sensor data is reliable. The stabilising process will need to be considered every time the device is switched OFF for a lengthy period.



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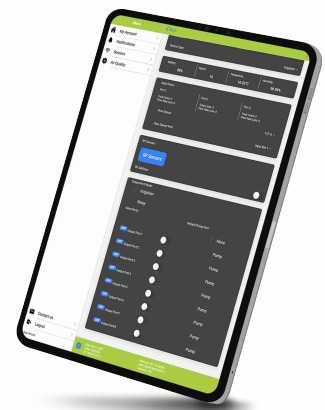
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Step 5

1. The Sensor unit will communicate to the Aardra Cloud Data Storage and upload sensor values once a minute. This rate can be adjusted between 1-20min using the Aardra Cloud Account, or if the battery level was to reduce below a predefined limit, the upload interval would automatically increase to sustain a longer active period for the sensor.



Step 6

Access the Aardra Cloud platform either using the mobile app or a web browser from a PC/Laptop.

Sensor Data can be viewed on the platform or outputted to a CSV file for any independent analytics.



1. The Air Quality Sensor can be both solar and mains powered.
2. Fixtures can be provided for various types of installations.
3. Regular Aardra Cloud updates are available for new and enhanced features such as analytical tools and integration to external devices for various automated processes.