



THE BEST SMALL SENSOR AIR QUALITY MONITORING SYSTEM



www.aqmesh.com



Multisensor mini air quality monitoring station

AQMesh pods can measure just one gas or up to six gases, particles, noise and wind speed & direction. Humidity, pressure and pod temperature are always measured.



Easy to install

AQMesh pods are neat, compact and easy install within just a few minutes and experienced technical staff are not required. A 90 second installation video shows just how quick it is to be up and running.



Monitor exactly where monitoring is required

With wireless communications using the global mobile network and a choice of power options, including batteries, mains supply or a bespoke solar pack, AQMesh can be installed in almost any location.



Low cost of ownership

AQMesh pods require very little maintenance and there is a very low ongoing cost. All we recommend is the electrochemical sensors are replaced every two years, and we replace all sensors for free during the first year.



Proven to last in the field

AQMesh has been on the market and in the field since 2012, with some customers still successfully operating the exact same pods they received seven years ago.



Data management flexibility

AQMesh processes and stores all readings on its bespoke secure server which can be accessed by a website login or API to integrate with other systems, or it can be simple emailed to you at your preferred schedule.



Accurately measure the target pollutant

Meaningful correction of cross-gas effects and interference from environmental conditions is consistently delivered through proven and traceable processing.



NO2 measurements that can be relied on

Whilst some manufacturers use a calculation to give an NO2 reading, AQMesh uses a unique O3-filtered NO2 sensor for accurate, direct measurement of NO2.



Repeatable, traceable results

The carefully developed data processing algorithms used by AQMesh are fully traceable and fixed by version number, and, unlike other systems, have been achieved with no use of machine learning or artificial intelligence.



Proven track record & stability

AQMesh performance and long-term baseline stability has been proven over many years of independent global co-location trials against certified reference equipment, providing AQMesh with a wealth of datasets that no other manufacturer has access to.



Measure accurately across every continent

Development through extensive global co-location comparison trials in all seasons across each continent means AQMesh can operate in the widest possible range of environments and conditions.



Outstanding global customer support

AQMesh prides itself on the level of global customer support it provides to its distributors and end users before, during and after sale. There is no cost for technical support and location is not a barrier.



AQMesh | Monitoring Options

- AQMesh can be specified to monitor a single gas or up to 6 gases, as well as PM, noise and wind speed & direction:-
- Measures gases NO, NO2, O3, CO, SO2 and H2S using the latest generation of electrochemical sensors
- CO2 monitoring with a NDIR sensor
- Measures particulates PM1, PM2.5 and PM10 with a light-scattering optical particle counter
- Noise monitoring with an omnidirectional microphone
- Meteorological sensor for wind speed and direction measurement
- Measures relative humidity, pod temperature, atmospheric pressure as standard

| Power Supply Options



Internal lithium battery



External lithium battery pack



Rechargeable NiMH battery



DC power with mains transformer



Bespoke solar pack

| Applications

- Mining
- Construction
- Smart cities
- Indoor air quality
- Schools
- Health & safety
- Traffic management
- Transport hubs
- Oil & gas facilities
- Urban air quality



Refer to most up to date case studies at aqmesh.com/case-studies/aqmesh-case-studies/



AQMesh | Technical specification highlights

Sensor	Type	Units	Range*	LOD	Precision*	Accuracy*
NO	Electrochemical	ppb or µg/m3	0-20,000 ppb	<1 ppb	>0.9	1 ppb
NO2	Electrochemical	ppb or µg/m3	0-20,000 ppb	<1 ppb	>0.85	4 ppb
O3	Electrochemical	ppb or µg/m3	0-20,000 ppb	<1 ppb	>0.9	5 ppb
CO2	NDIR	ppm or mg/m3	0-5,000 ppm	<1 ppm	>0.9	30 ppm
PM2.5	Optical particle counter	µg/m3	0-150,000 µg/m3	0 µg/m3	>0.9	5 µg/m3
PM10	Optical particle counter	µg/m3	0-250,000 µg/m3	0 µg/m3	>0.85	5 µg/m3

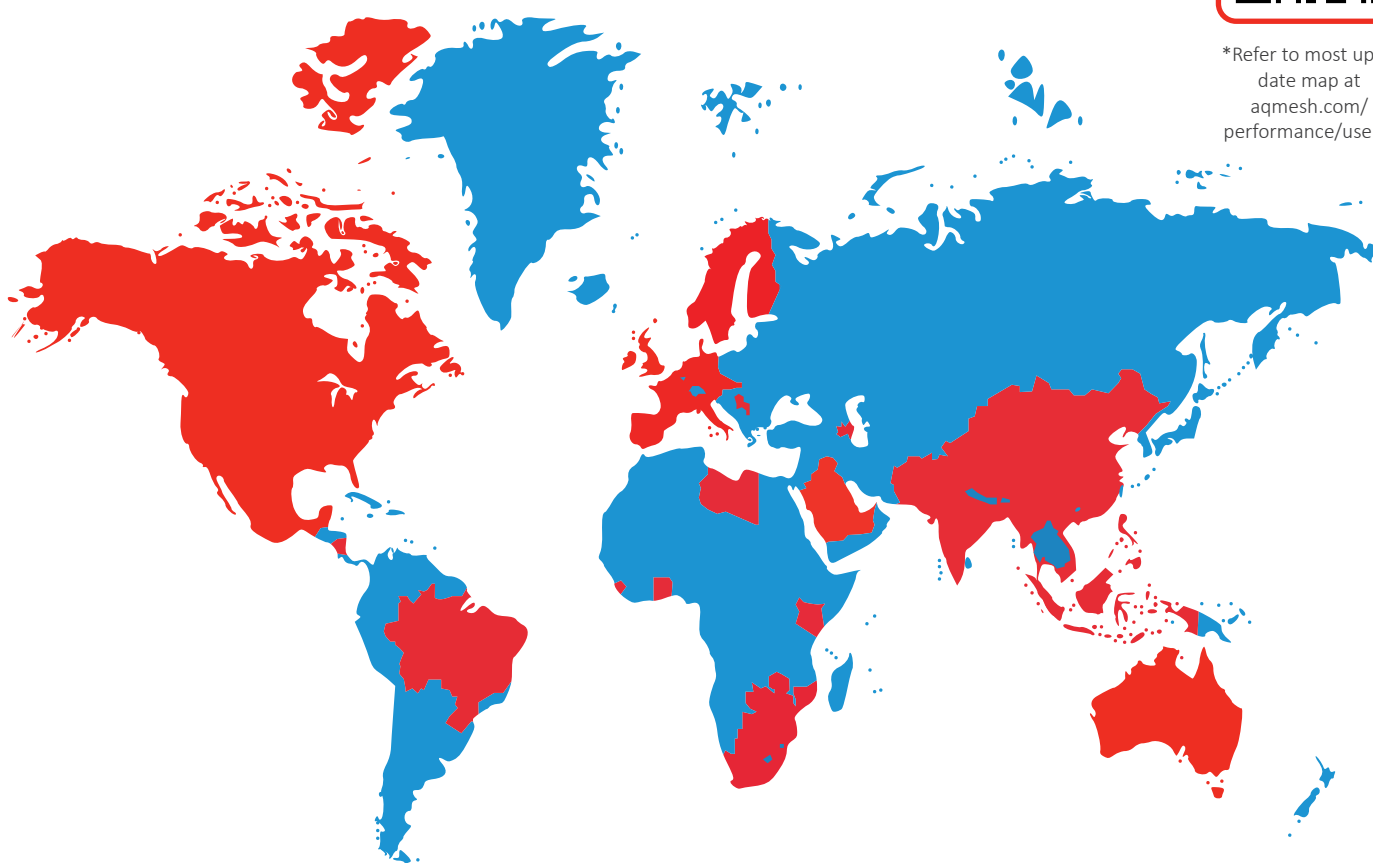


*Refer to full, most up to date specification at aqmesh.com/product/technical-specification/

| In use throughout the world



*Refer to most up to date map at aqmesh.com/performance/users/



The best small sensor air quality monitoring system designed and manufactured in the UK by Environmental Instruments Ltd. and sold and supported worldwide through our global distribution network.*