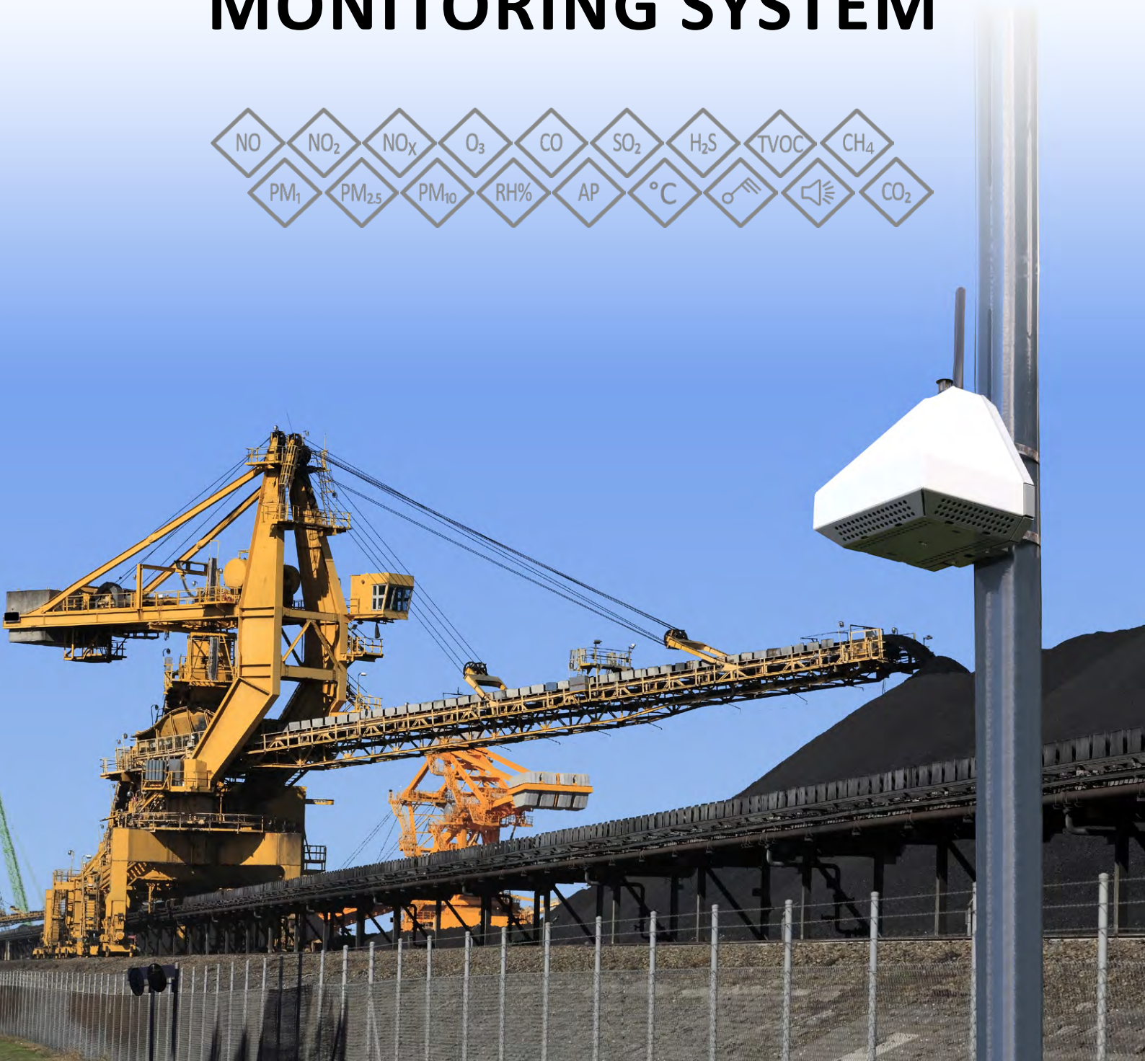
AQMesh

AIR QUALITY MONITORING SYSTEM



www.aqmesh.com

AQMesh | Benefits

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.

Maximum uptime across the network

Robust hardware, wireless communications and the secure AQMeshData server mean AQMesh pods can easily reconnect themselves and continue to capture data if power is ever interrupted. Faults or failures can be detected, diagnosed and resolved swiftly and remotely, without the need to visit the equipment.

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.

Real-time pollution alerts

Email alerts can be set for exceedances on any data channel, completely customisable to the user's required detection limits and can be integrated into other systems for autonomous control.

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

- Up to 6 gases out of NO, NO2, O3, CO, CO2, SO2, H2S, TVOC and CH4
- PM1, PM2.5, PM10, TPC
- Noise
- Wind speed & direction
- Relative humidity, pod temperature and atmospheric pressure

Power supply options

Rechargeable NiMH battery

DC power with mains transformer

Smart solar pack

Data access

- 100% confidential data
- Secure access with AQMesh data visualiation platform or API

Applications

- Fenceline
- Oil & gas
- Mining
- Construction
- Landfill
- Local authorities & consultants
- Transportation
- Research

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*
NO2	Electrochemical	ppb or µg/m3	0-4,900 ppb	<1 ppb	>0.85	4 ppb
O3	Electrochemical	ppb or µg/m3	0-1,700 ppb	<1 ppb	>0.9	5 ppb
H2S	Electrochemical	ppb or µg/m3	0-10,000 ppb	<1 ppb	>0.7	1 ppb
SO2	Electrochemical	ppb or µg/m3	0-1,1000 ppb	<2 ppb	>0.7	20 ppb
TVOC	Electrochemical	ppb	0-2,500 ppb	<10 ppb	>0.95	0.05 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

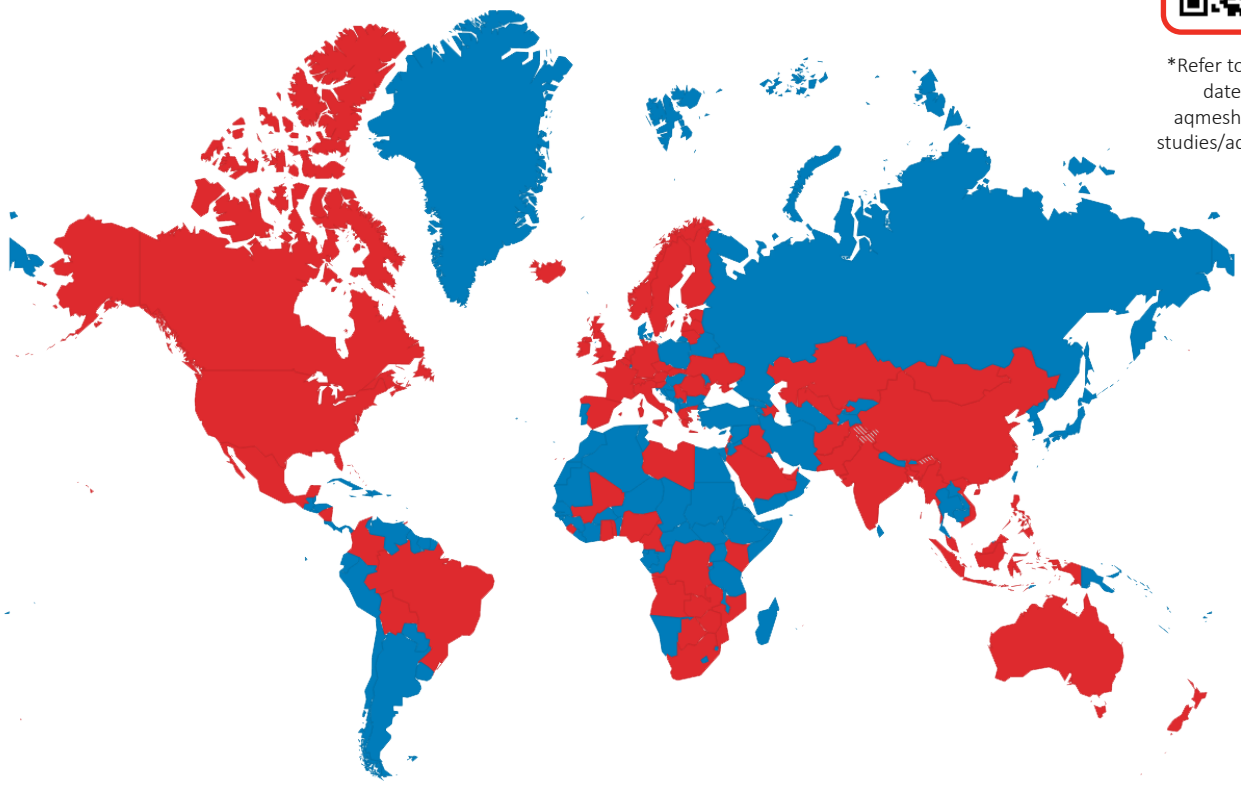
*

mCERTS
CSA MC 240422/00
CSA MC 240423/00

AQMesh has MCERTS Indicative certification for PM2.5 and PM10

*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/case-studies/aqmesh-users/

The most proven industrial fenceline air quality monitoring system designed and manufactured in the UK by Environmental Instruments Ltd. and sold and supported worldwide through our global distribution network.*

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