



AIRLOGICS
AIR MONITORING SYSTEMS



AQS-1



POWER OPTIONS:

110-line

16-hour rechargeable lithium batteries

Solar

AQS-1 and the Dust Sentry are AirLogics' newest and most nimble, modular, and customizable air monitoring systems.

About AirLogics, LLC

AirLogics occupies a unique place in the environmental consulting and air monitoring sector. Our company was formed from a top-tier environmental consultancy that was trying to help a client manage their risk on a remediation site. In developing a solution to reduce their risk, an innovative and patented air monitoring system was born. From there, a company was built around that system. What evolved was a company that appears to be a rental equipment company, but functions like and has the sensibilities of a professional consulting firm, including the professional staff, expertise, and attention to solving our clients problems. We are proud of the position that AirLogics occupies in the environmental and air monitoring space.

The AirLogics Advantage

The primary advantages of AirLogics over traditional rental equipment providers are:



Professional Services

Our degreed and licensed professionals are scientists, engineers, and consultants with subject matter experience who can help you better achieve your site management goals. From planning to execution to post-mobilization reporting, AirLogics can assist you reduce your risk.



State-of-the-Art Industry Leader

Whether its developing our own systems or acquiring systems and sensors made by others, AirLogics is continually investing in state-of-the-art technology.



Real-time

Numerous stakeholders can benefit from actionable, real-time data. Real-time management of ambient air quality, rather than passive measurement and retrospective documentation, helps users immediately identify potential emissions and begin corrective action.

AQS-1 by Aeroqual



Near reference real-time monitor for particulate fractions plus O₃ /NO₂ /VOC

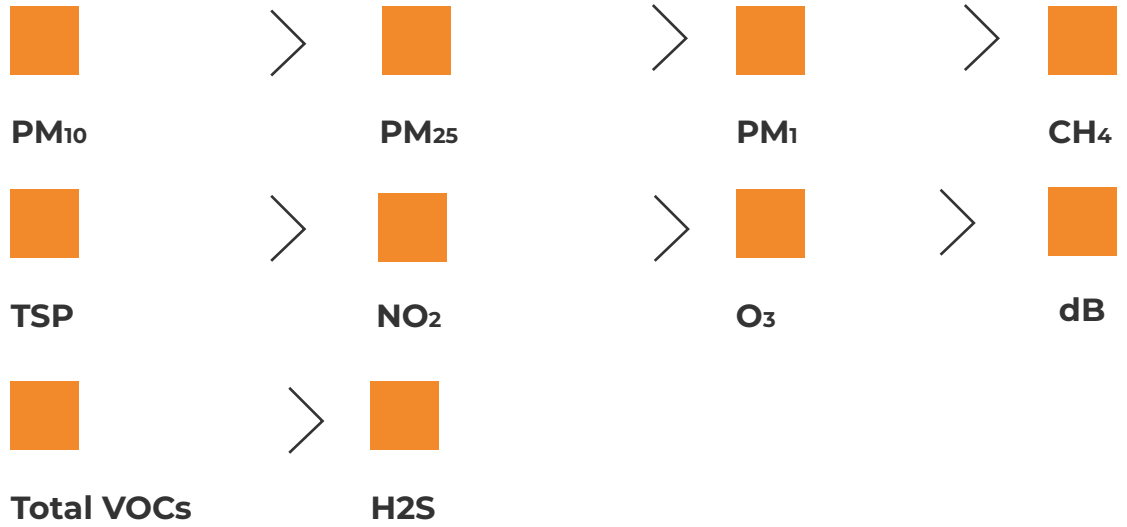
Designed for those who need to monitor and manage specific outdoor dust and particulates, and gases continuously and in real-time. The AQS-1 delivers affordable and defensible measurement of PM₁₀, PM_{2.5}, PM₁, TSP, and up to three gases, all simultaneously.

What is it?

- A robust weather-proof monitor with integrated solar shielding for outdoor monitoring of dust, VOCs and other gases
- A modular and configurable monitoring platform for measurement of a targeted particulate and gases, and the option to integrate weather sensors (e.g. wind, humidity, precipitation, and solar)
- A flexible communications platform that transfers real-time data wirelessly, and gives you access through an API
- A web interface accessed via browser on any device, see all your data in one place and set email / SMS alerts on parameters of concern

What can it measure?

Particulates, up to three gases, wind meteorology, and noise



WEATHER
wind speed, wind
direction, rain,
humidity, temp

Specifications

Control System: 1
Embedded fanless PC, Intel Atom N2600, 1.6 GHz, 2 GB RAM, 32 GB SSD, Ubuntu Linux Operating System

Communications: 2
Standard: WIFI, Ethernet (LAN)
Optional: Cellular IP HSPA 4G modem

Data Logging: 3
32 GB Hard Drive (>5 years data storage)

Averaging Periods 4
1 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 hr, 2 hr, 4 hr, 8 hr, 12 hr, 24 hr

Power Requirements: 5
100-260 VAC (standard): 21W / 30W* Regulated 12 VDC (if required): 21W / 30W*

PM Sampling System: 6
Inlet: Omni-directional 36cm (14.1 inches) heated inlet; Optional sharp cut cyclones for PM10, PM2.5 or PM1 size selection
Pump: 12V brushless DC diaphragm
Optics: 670nm laser, near-forward scattering nephelometer with sheath air protection

Dimensions: 7
483 H x 330 W x 187 D mm (19 H x 13 W x 7.4 D inches)
Includes solar shield armour & mounting brackets

Weight: 8
<13 kg (28.6 lbs)

AQS-1 by Aeroqual

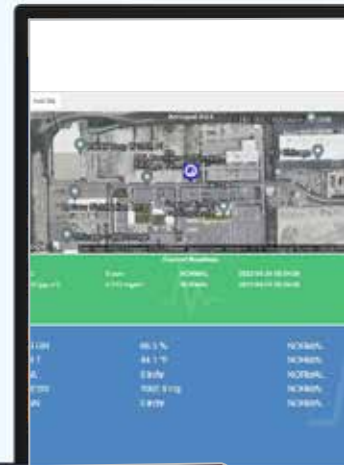
Particle Module	Sizes	Range	Accuracy	Resolution	Lower Detectable Limit (2σ)
Nephelometer	PM1/PM2.5/ PM10/TSP	0 to 60,000 µg/m ³	<±(2 µg/ m ³ + 5% of reading)	0.1 µg/m ³	<1 µg/m ³
Profiler (OPC)	PM1/PM2.5/ PM10/TSP	PM1 200 µg/m ³ PM2.5 2000 µg/m ³ PM10 5000 µg/m ³ TSP 5000 µg/m ³	<±(5 µg/m ³ + 15% of reading)	1.0 LPM	<1 µg/m ³

Gas Module	Range	Resolution	Noise	Lower Detectable Limit/ppb	Precision	Linearity (% of FS)	Drift 24 Hour
Ozone O ₃	0-500 ppb	0.1	<1 <1%	1	<2% of reading or 2 ppb	<1.5%	1; 0.2%
Nitrogen dioxide NO ₂	0-500 ppb	0.1	<1 <1%	2	<2% of reading or 3 ppb	<2.0%	2; 1%
VOC (Low range)	0-500 ppb	0.1	<1 <1%	<1	<2% of reading or 1 ppb	<1.0%	1; 1%
VOC (High range)	0-30 ppm	10	<100; <0.20 or 1%	<50	<2% of reading or 20 ppb	<2.0%	100; 1%

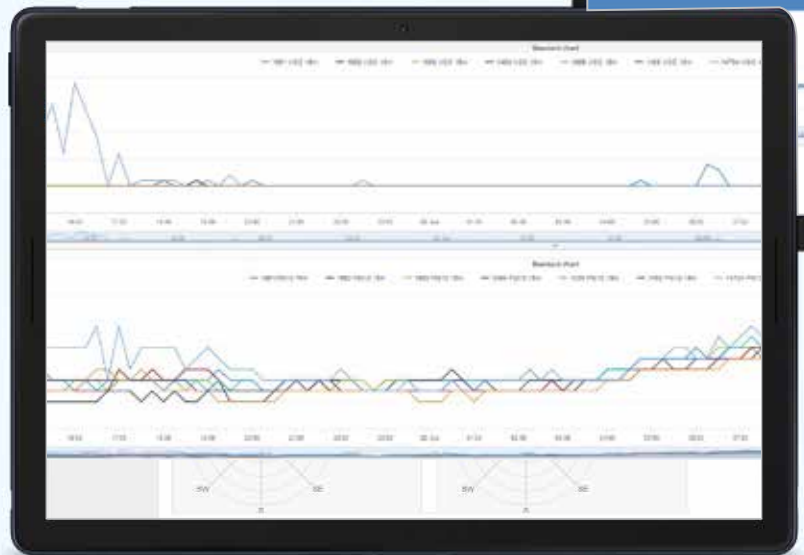
Data Access, Management & Visualization



Connect to Cloud
in **under 3 minutes**



Compatible with
1,000's of different
monitor configurations

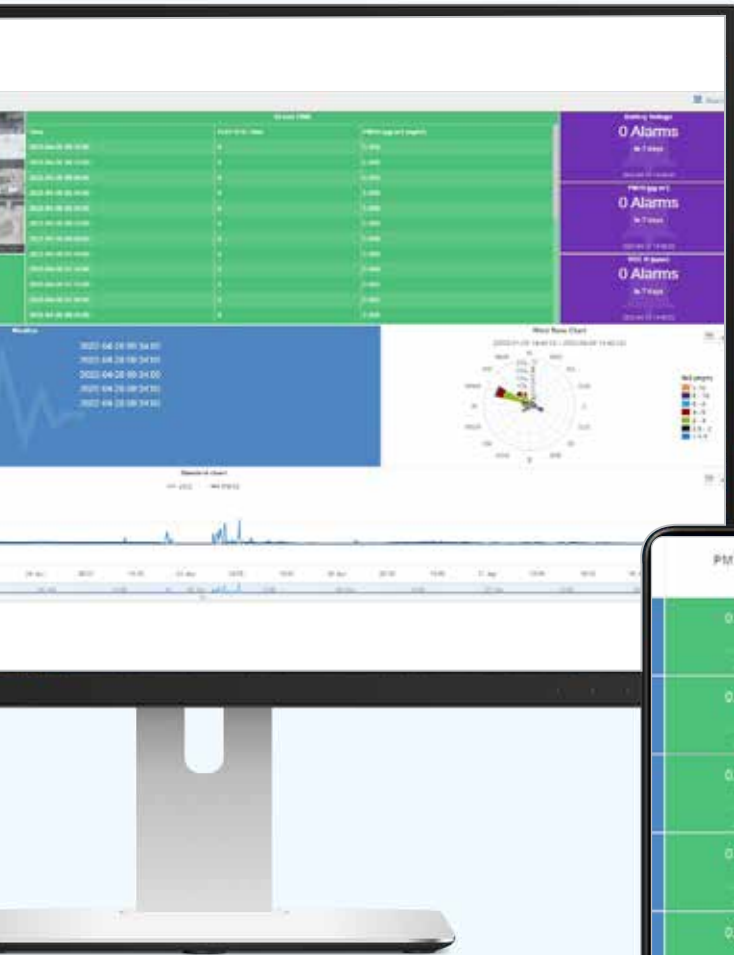


Get alerts via SMS / email
within **90-120 seconds** of an event

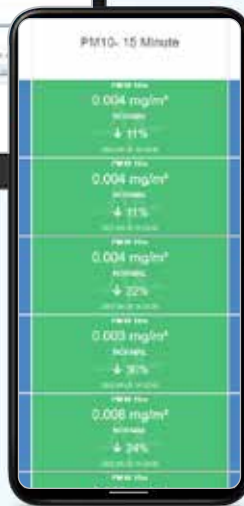
AQS-1 by Aeroqual



Our system processes over **6 million** datapoints per day



Customizable Data Visualizations



Achieve greater than **99% uptime**



AIRLOGICS

AIR MONITORING SYSTEMS

Need an air monitoring solution? Contact us today so we can discuss the specifics of your project.

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