

# Aeroqual Cloud, all in one application

Remotely access your real-time air monitoring data and manage your monitor network – anywhere, anytime.



“Aeroqual’s cloud-based data management platform allows us to schedule system maintenance more efficiently, reduce time on site, and still meet our overall objective: the generation of defensible data.”

**Volker Schmid**, CleanAir Engineering, Environmental Scientist and Business Leader

In a world where air pollution is making too many headlines, environmental professionals need access to reliable turnkey systems to monitor air quality in real-time and actionable data to drive effective decision-making and actions. Our web-based software, Aeroqual Cloud, was designed with this in mind.



## EASY TO SET UP

Configure and calibrate your monitor via WIFI in less than 3 minutes, including measurement units, geo-location, sensor activation, and more. Configure alerts when readings exceed your chosen thresholds.



## EASY TO USE

There’s no software to install. Simply open your internet browser on your device, and login. The interface is fast and intuitive. Your data is securely stored on the monitor and on AWS data centers.



## EASY TO REPORT

Real-time actionable data is displayed using simple and advanced charting functions to allow you to view, analyze, collaborate and report on your data, and save your favorite settings.



## EASY TO MANAGE

Up to 3,000 Aeroqual outdoor monitors (AQM 65, Dust Sentry, AQS 1, AQY) can be accessed on Aeroqual Cloud, monitoring performance and maintenance requirements.



## EASY TO SHARE

We give you full control of your data. It can be pushed via FTP to your preferred server, emailed to your team every day or downloaded to your PC.



## EASY TO INTEGRATE

Plug in all your third-party devices – noise, weather, reference monitors – and view data in one software dashboard.



## EASY TO SUPPORT

Remote technical support is included as standard free of charge, because without a healthy monitor, your data can be meaningless.

# Capabilities

Connect your monitor to Aeroqual Cloud in less than **3 minutes**

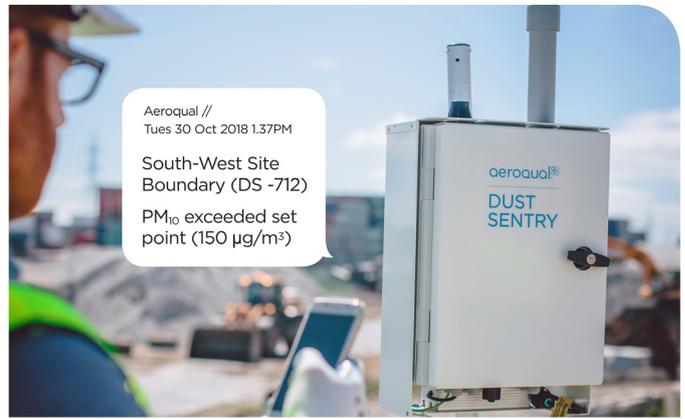
Manage up to **3,000** monitors at one time

**SMS** Get an alert via SMS / email **within 1 minute** of an event occurring

Our system processes more than **6 million** air quality measurements per day

Access real-time and historical data **24/7, 365** days a year

**99%** system uptime

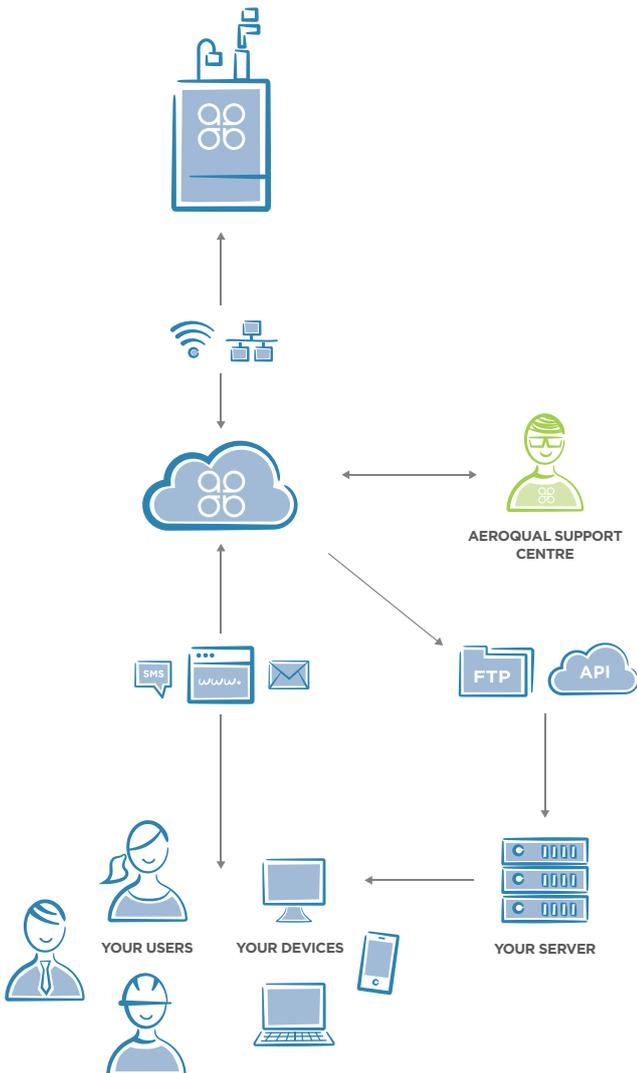


## How it works

All Aeroqual outdoor monitors include their own mini-computer and a WIFI router to quickly connect the monitor on the network and easily access data from Aeroqual Cloud on any web browser, 24/7, on site (mobile, tablet) or from your office (desktop). Individual monitor air monitoring data is securely stored on our AWS cloud servers.

With Aeroqual Cloud, customers can access, analyze and report on their data in real-time as well as view all their monitors on a map, knowing exactly how they are performing and when they need to be serviced. Our technical support team can even remotely troubleshoot monitors and update settings, minimizing down time. No need to be on site too often to operate smoothly and effectively.

Real-time data access enables real-time alerts (SMS, email) and improved environmental threats mitigation. Aeroqual data outputs can be used to trigger other site equipment e.g. control sprinklers for dust suppression or to turn off equipment which poses an environmental threat.



# Features

	FEATURES PER PLAN	
	SUPPORT	PLUS
<b>MONITOR CONFIGURATION</b>		
Choose your units, e.g. gas concentration in ppm or µgm-3	✗	✓
Set your time zone and language	✓	✓
Place your monitor on a map	✓	✓
Configure text (SMS) or email alerts when readings exceed your chosen threshold	✗	✓
Add a 3rd party sensor e.g. wind speed / direction to the list of sensors reported in the software	✗	✓
<b>SERVICE &amp; MAINTENANCE</b>		
Automatically flag data as service data so it can be excluded from daily or hourly average calculations	✓	✓
View real-time data (1 minute instantaneous) from the monitor as well as calculated average and standard deviation	✓	✓
Change gain and offset for each parameter during calibration	✓	✓
Auto calibration functionality, (only for AirCal 8000 on AQM 65)	✓	✓
View monitor diagnostic information remotely	✓	✓
Update operating software remotely	✗	✓
<b>MONITOR MANAGEMENT</b>		
Manage up to 3,000 monitors at one time	✗	✓
View all of your monitors on a map	✓	✓
View all of your monitors on a chart	✗	✓
Know the status of all of your monitors in one view	✓	✓
View your monitor licenses, know when licenses are going to expire	✓	✓
Automated email license reminders	✓	✓
<b>DATA USE &amp; REPORTING</b>		
View historical data	1 month	Unlimited
Download historical data (.csv, .xml)	✗	✓
Integrate all your environmental measurements in one place: air, noise, wind, temp, RH, precipitation, solar radiation	✓	✓
Visualize your data in charts, wind or pollution roses	✗	✓
Save your favorite chart views	✗	✓
Choose a customized date range and averaging period	✗	✓
Highlight and annotate events e.g. "fireworks display - high PM"	✗	✓
Take a snapshot of a chart and share with your colleagues	✗	✓
Automatically email to multiple people	✗	✓
API access	✗	✓
<b>DATA SECURITY</b>		
ISO 27001 approved cloud data centers (AWS, AliCloud)	✓	✓
Infrastructure monitored and protected 24/7	✓	✓
Secure website with 256-bit SSL encryption	✓	✓
User defined passwords	✓	✓
Offline data acquisition mode enabled as standard with all monitors	✓	✓
If offline you don't lose data as it's saved on your monitor (AQM, AQS, Dust Sentry) and backfilled when reconnected	✓	✓
<b>DATA JOURNAL</b>		
Secure data log records: changes to monitor configuration, changes to gain or offset, changes to monitor location or time zone, monitor re-boots, calibration and service activities	✓	✓
Make customized journal entries e.g. record "pollution" events such as nearby fire burning or excessive traffic	✓	✓
Exchange information with our local technicians	✓	✓
<b>ADMINISTRATION</b>		
Set up client organisations and assign users and instruments to those organisations	✓	✓
Create protects for your clients, and assign instruments and users to only those projects	✓	✓
Manage all of your clients' instruments and their access credentials (logins & passwords) in one screen	✓	✓
Create unlimited client user accounts for individual instruments or to a network of instruments	✓	✓
Users you create can be "view data only" users or "Engineers" who are allowed to make changes to instrument settings	✓	✓
<b>LEASING</b>		
Lease out your own instrument temporarily to clients for short or unlimited periods of time	✓	✓
When your clients lease expires, they retain access to data collected only during their lease period, your next lease client starts with a "blank instrument"	✗	✓
Compartmentalize or reset data log for your next air monitoring project	✗	✓
Leasing mode access to data after the lease has ended	✗	✓

# Compatible Monitors



## AQM 65 COMPACT AIR QUALITY STATION

- Industrial fenceline monitoring
- Environmental impact assessments
- Research
- Urban air monitoring networks
- National air monitoring networks

## AQS 1 MINI AIR QUALITY STATION

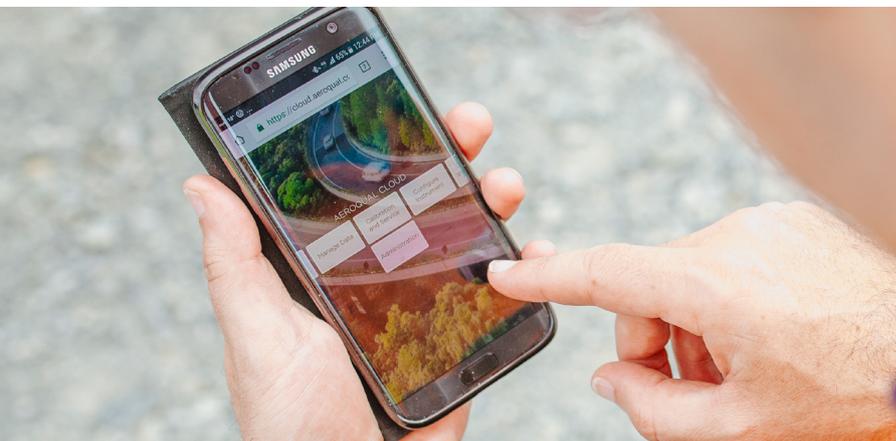
- Construction air monitoring
- Remediation air monitoring
- Industrial fenceline monitoring
- Roadside monitoring
- Urban air monitoring
- Environmental impact assessments

## DUST SENTRY DUST SENTRY & DUST SENTRY PRO

- Construction air monitoring
- Demolition air monitoring
- Remediation air monitoring
- Bulk terminal emissions
- Wildfire smoke monitoring
- Quarries and mine emissions
- Transport air monitoring

## AQY 1 MICRO AIR QUALITY MONITOR

- Community exposure studies
- Smart city grid monitoring
- Mapping pollution sources
- Roadside monitoring networks
- School and education facilities air monitoring
- Validating air quality models



“Using the live data and alert system, our clients can respond to exceedance and mitigate dust emissions before they impact people or environment.”

**Roel van Oirschot**, Campbell Associates Technical Sales Field Engineer

## About Aeroqual

Every day, environmental professionals around the world are working hard to protect people and planet from the impact of air pollution. Since 2001 Aeroqual has equipped environmental professionals with technology that takes the time and hassle out of air quality monitoring projects. Government, industry, researchers and environmental consultants trust us to deliver actionable data built on industry-leading sensor technology, wirelessly connected to software in a single integrated package. With thousands of successful projects delivered in 70 different countries on all seven continents, our systems process more than six million air quality measurements per day. In 2017 the U.S. Environmental Protection Agency signed a 5-year R&D collaboration agreement with us to accelerate understanding of air sensor technology.