



Who We Are

We help clients save time and money implementing geotechnical, structural and environmental monitoring programs by providing industry-leading hardware and software solutions.







Meet the Team



What We Believe

We believe that by sourcing the world's most advanced technology, we can solve even the most pervasive monitoring problems to make your life easier and save money. To that end, we provide the best and most appropriate data-to-desk solutions, by leveraging our experience and expertise to develop innovative, state-of-the-art, turnkey solutions comprised of industry-leading hardware and software.

Application Examples



Customers that Rely on Specto Technology

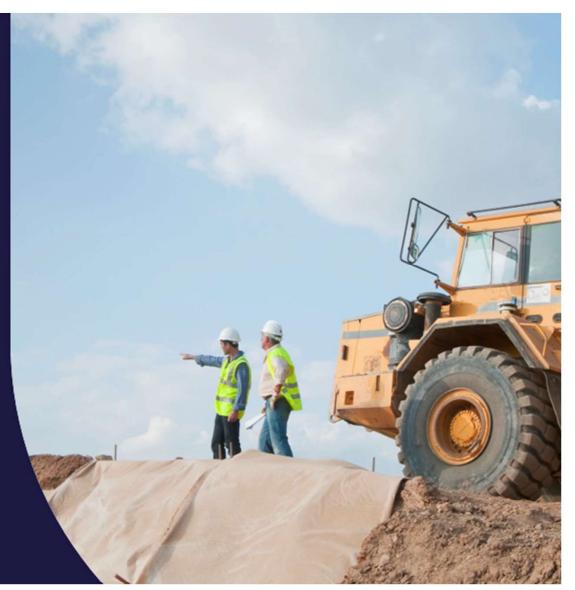




aeroqual®

Air Monitoring Made Easy

Actionable Data to Build Reputation and Dismantle Risk on your Remediation Project





Aeroqual Connected Air Monitors

Two-way Integration | Cloud Storage | Real-Time Data and Alerts



6,582 Global 100 Regional Partners

7M+ datapoints /day 99% Data Uptime



Air Quality Sensor Technology



Inert sampling cane and pump for precise flow in all conditions



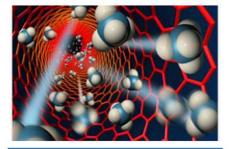
Inlet filters ensure hygiene and integrity of gas sample



Heated PM inlet eliminates humidity effect and false positive results in your data



Unique Automatic Baseline Correction (ABC) reduces drift and calibration frequency



Part-per-billion detection in ambient air for VOCs, NO_2 , O_3 , BTEX and other gases



Traceable calibration for defensible data in the field



Robust and purpose-designed for outdoor environments increases uptime



2-way communication reduces site visits – troubleshoot, change settings, calibrate by mobile or PC



AQM 65

Q0 00

What is it?

A compact air quality monitoring station which delivers defensible data for up to 20 gaseous and particulate pollutants and environmental parameters simultaneously

Advanced sensor-based analyzer modules are designed to be calibrated in situ using Standard Reference Materials for best practice

Proven long term performance in extreme climates with advanced temperature and humidity control

Modular design for ease of maintenance and optional integrated automated calibration

Near Reference data is traceable to EPA 40 CFR Part 53 and EU 2008/50/EC certified equivalent methods

Who is it for?

- Urban air monitoring networks
- National air monitoring networks
- Roadside air monitoring
- Industrial perimeter monitoring
- Environmental impact assessments
- Research and consultancy projects
- Short term hot spot monitoring





AQS 1

Q0 00

What is it?

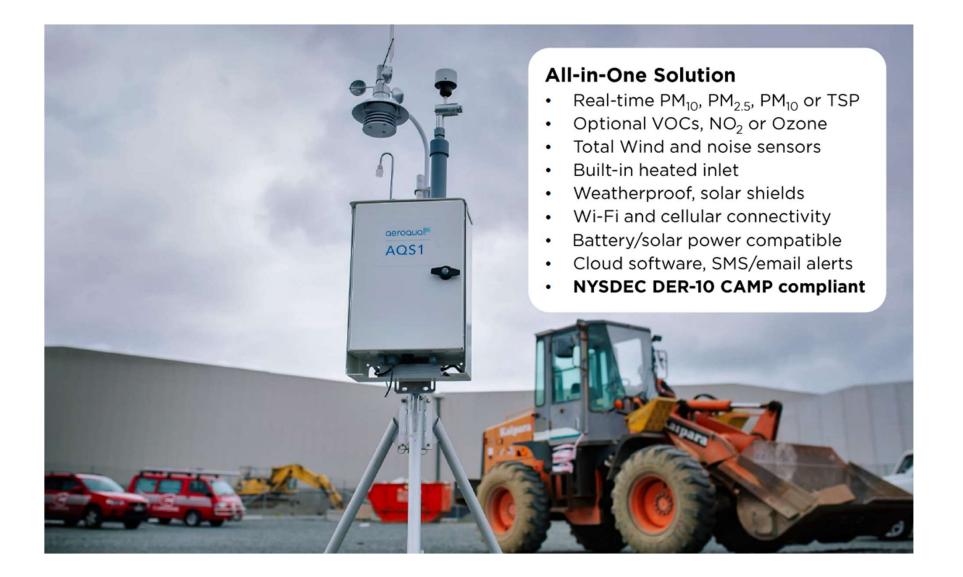
Reduce downtime with this robust purpose-built air quality station to measure dust fractions (PM₁₀, PM_{2.5}, PM₁, TSP), gases (VOCs, NO₂, O₃), weather and noise Industry leading gas sensing technology from Aeroqual Set up in minutes for actionable data via PC or mobile 2-way communications reduces site visits with – remotely troubleshoot update settings, software, and calibrate Plug in all your devices and view data in one dashboard Power up with solar and battery systems Configure real-time email / SMS alerts

Who is it for?

- Construction and remediation projects
- Quarry and mine operators
- Waste management sites
- Oil and gas fenceline
- Environmental consultants
- Regulatory authorities
- EHS managers
- NYSDEC DER-10 CAMP

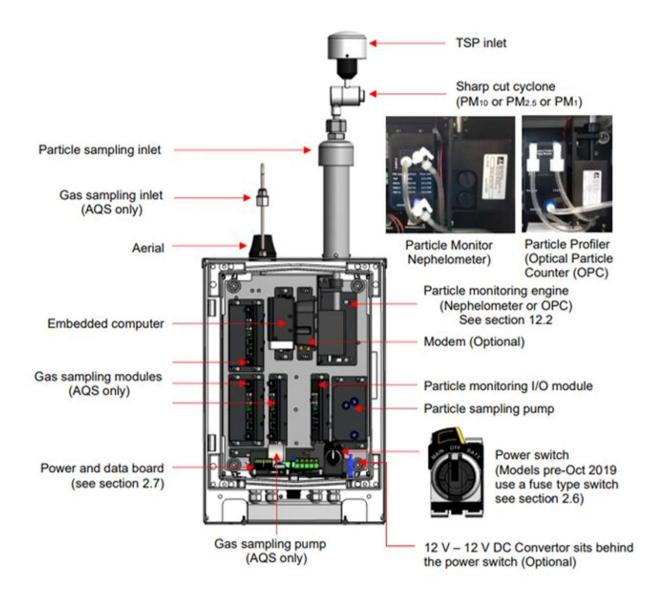








Aeroqual AQS1





Sensor-based analyzer modules are designed to:

- optimize performance
- extend operating life
- reduce drift, noise (Automatic Baseline Correction)
- adjust for humidity
- reduce minimum detection limit



Service schedule

AQS1 service schedule (manufacturer's guidelines)

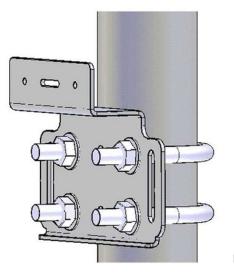
Service activity	Section	Service frequencies
Gas inlet filter change	6.5.3	4 – 12 weeks. Initially 4 weeks. Later this can be modified to suit local conditions and data quality objectives.
PM inlet filter change	6.5.5	4 – 12 weeks. Initially 4 weeks. Later this can be modified to suit local conditions and data quality objectives.
PM inlet flow check	6.5.6	4 – 12 weeks. Initially 4 weeks. Later this can be modified to suit local conditions and data quality objectives.
Gas inlet flow check (module flow and leak checks if required)	6.5.4.1	4 – 12 weeks. Initially 4 weeks. Later this can be modified to suit local conditions and data quality objectives.
PM leak check	6.5.7	Every 3 months
PM zero check	6. <u>5.</u> 8	Every 3 months
PM zero flow check	6.5.8	Every 3 months
PM inlet cleaning	6.5.9	Every 3 months
Change sampling pumps (dust monitor and gas)	6.5.10	Every 12 to 18 months or if flowrate cannot be set correctly
Factory calibration of optical engine	6.6	Every 24 months (2 years)
Gas module calibration	5.1	Field calibration every 1 – 3 months, or factory calibration every 12 months (depending on project requirements)















Installation Options





Installation Options

















Aeroqual Cloud





Remote access via Cloud



Two-way communication with your monitor.



Remote access to your data in real time (1 minute instantaneous).

Alerts >	РМ10 т РМ10 (µg/m ³)
Sensor List	Disable this alert when ser
Data Filters	Email address
About	Add a new alert

Configure text (SMS) or email alerts when readings exceed your chosen threshold.

Instrument type	Poll time-out	Poll time-out		VPN Server		
Dust Sentry	1.5 secon	ds	٠	Production *		
Software version	Active Senso	5		Offline reboot interval		
1.13.7	PM10	WS		24 hours *		
Time zone	WD	PRESS		Ethernet mode		
(UTC) Coordinated Ur	AIR T	AIR RH PM2.5		Direct (DHCP server) *		
Summer time adjusted	Add new		٠	Ethernet IP address		
Save changes? Cance	I Save			WIFI mode		

Add a 3rd party sensor and see all your data on Aeroqual Cloud.



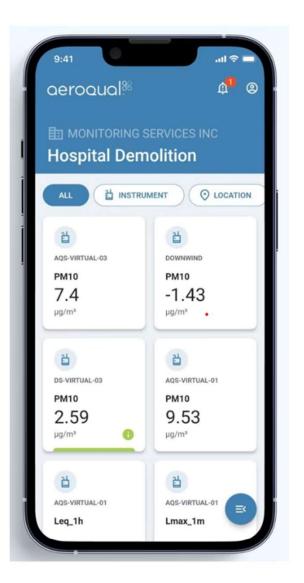
Secure data acquisition and storage on Cloud.

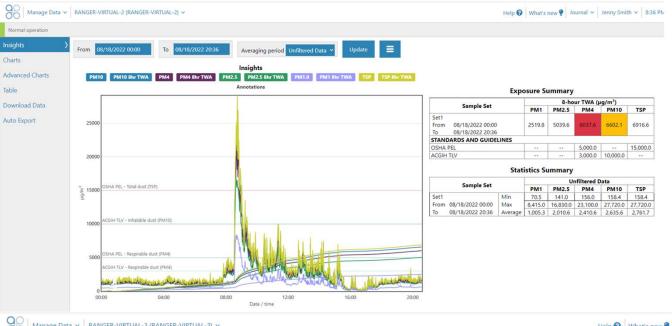
				~~	
7	04:00	08:00	12:00	16:00	20.00

Data access is in your control: download, email to team or export via API.



Data Presentation





80 Manage Data V RANGER-VIRTUAL-2 (RANGER-VIRTUAL-2) V

08/18/2022 08:20 pm

08/18/2022 08:19 pm

08/18/2022 08:18 pm

08/18/2022 08:17 pm

08/18/2022 08:16 pm

No

Insid

Cha

Adv

Dov

Auto

Help 😮 What's new 💡

Sample

Sample Sample Sample

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lormal operation						
ights	From 08/18/2022 To 08/	18/2022 Averaging perio	od 1 minute 🗸	Update		
arts		PM1	PM10	PM2.5	PM4	TSP
	Time	µg/m3	µg/m3	PM2.5 µg/m3	μg/m3	µg/m3
vanced Charts	08/18/2022 08:36 pm	639.000	1,686.960	1.278.000	1,405.800	1,948.439
1	08/18/2022 08:35 pm	648.000	1.710.720	1.296.000	1.555.200	1,796.256
ble	08/18/2022 08:34 pm	624.000	1,497.600	1.248.000	1,497.600	1,729.728
unland Data	08/18/2022 08:33 pm	613.500	1.914.120	1,227.000	1,595.100	2.009.826
wnload Data	08/18/2022 08:32 pm	622.500	1,245.000	1.245.000	1.245.000	1,437.975
to Export	08/18/2022 08:31 pm	634.500	1.649.700	1,269.000	1,649,700	1,732.185
to Export	08/18/2022 08:30 pm	616.500	1,763.190	1,233.000	1,602.900	2,036.484
	08/18/2022 08:29 pm	615.000	2.066.400	1,230.000	1,722.000	2.386.692
	08/18/2022 08:28 pm	643.500	1,840.410	1,287.000	1,673.100	2,125.674
	08/18/2022 08:27 pm	658.500	1.896.480	1.317.000	1.580.400	2,190.434
	08/18/2022 08:26 pm	646.500	1,422.300	1,293.000	1,422.300	1,642.757
	08/18/2022 08:25 pm	639.000	1,827.540	1,278.000	1,661.400	2,110.809
	08/18/2022 08:24 pm	633.000	1,266.000	1.266.000	1.266.000	1.329.300
	08/18/2022 08:23 pm	607.500	1.871.100	1,215.000	1,701.000	2,161.120
	08/18/2022 08:22 pm	616.500	2,071.440	1,233.000	1,726.200	2,392.513
	08/18/2022 08:21 pm	588.000	1,552.320	1,176.000	1.411.200	1,629.936

1.333.200

1,532.700

1 787 940

1,176.000

1.504.800

1,212.000

1,179.000

1,161.000

1,176.000

1.140.000

1,333.200

1,532.700

1.625.400

1,176.000

1,254.000

1.539.846

1,609.335

1.877.337

1,358.280

1,580.040

606.000

589.500

580 500

588.000

570.000



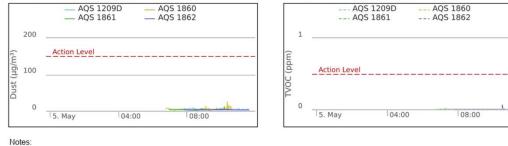
Daily Automated Reports (Tableau)

		DAILY	AIR MONITORING	REPORT	Da	Date: 05-05-2022			
			1061 E Elizabeth Ave	•	Du	st Action Level		150 µg/m³	
		Linden NJ		TV	TVOC Action Level		0.5 ppm		
Weather Date Day	Range for Work	Wind Direction	SSE	Relative Humidity (%)		81.4	Doily Doin (in)	0	Work Area:
	53.6 64.2	Wind Speed (MPH)	2.1 10.2	Barometer (inHg) 30 30		30	Daily Rain (in)		

VOC MONITORING RESULTS

Area	(µg/m3)	Concentration (µg/m3)	(ppm)	Concentration (ppm)
AQS 1209D	3.996	7.82	0	0
AQS 1860	4.702	24.56	0	0
AQS 1861	3.161	11.75	0	0.01
AQS 1862	2.478	2.478	0.001	0.07

PM10 DUST MONITORING RESULTS





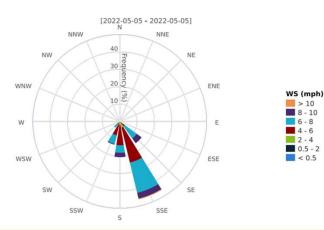
DAILY AIR MONITORING REPORT 1061 E Elizabeth Ave Linden NJ

Date:	05-05-2022
Dust Action Level	150 µg/m ³
TVOC Action Level	0.5 ppm



	DAILY AIR MONITORING REPORT	Date: 05-05-2022		
JFLCIU	1061 E Elizabeth Ave Linden NJ	Dust Action Level	150 µg/m³	
TECHNOLOGY		TVOC Action Level	0.5 ppm	

- Design a Template
- Select Report Period
- Reports sent to your inbox





SPECTO TECHNOLOGY

A WORLD OF SOLUTIONS

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www.SpectoTechnology.co

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