Air Quality Monitoring Solutions

Solving your
Monitoring Problems
to make your life easier

SPECTO
TECHNOLOGY
A WORLD OF SOLUTIONS

AIR QUALITY MONITORING SYSTEMS

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We understand every project is different, which is why we've designed simple and easy to use real-time monitoring systems for every situation. Aeroqual systems are portable, weatherproof and reliable, arriving on your site pre-assembled and ready to monitor.

Select a base system, upgrades, power options and additional items required for your project below.

BASE SYSTEM

Item	Description
Dust Sentry (DS)	Monitor for dust as particulate matter (PM), including TSP, PM_{10}, $PM_{2.5}$ and $PM_{1.0}$
Air Quality Monitor (AQS)	Monitor for PM and/or up to 4 gaseous pollutants simultaneously (VOCs, NO_2, SO_2, O_3, CO, H_2S)
Air Quality Monitoring Station (AQM65)	Monitor for PM and up to 8 gaseous pollutants simultaneously (VOCs, NO_2, NO_x, SO_2, CO, O_3, CO_2, H_2S)

BENEFITS

▶ Fully assembled – set-up in minutes
▶ Defensible data – calibrate to NIST standards
▶ Remote monitoring – reduce site visits
▶ Automated reporting and data analysis

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Item	Description
Weather Station	Ultrasonic weather station to measure for wind speed and direction and other parameters
Noise Monitor	Class 1 Sound Level Monitor with weather proof microphone
PTZ Camera	High definition camera with infrared motion detection
Gravimetric Analysis	Collection of gravimetric samples using 47 mm filter
SUMMA Canister Sampling	Remotely trigger SUMMA canister gas samples for laboratory analysis

BENEFITS

▶ All-in-one environmental monitoring system

▶ Site security and visual assessment of dust

▶ Composition of particulate samples (metals, silica)

▶ EPA TO-15 chemical analysis of gaseous pollutants

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POWER OPTIONS

Item	Power Supply	Power Duration
Mini Powermate	12 V 30 Ah Lithium Ion portable battery pack (DC) and AC charger	15 hours
Ultra Powermate	Weatherproof, solar compatible enclosure for 2 x 110 Ah batteries	80 hours
DIY Battery Option	Battery Box, 12 V 110 Ah battery and cables	40 hours
Solar Kit	Includes 2 x 150 or 210 W solar panels, mount and cables	All year around
Programmable Timer	On/off daily timer with options for each day of the week	NA

BENEFITS

▶ A wide range of options for your project

▶ Quick and easy to install

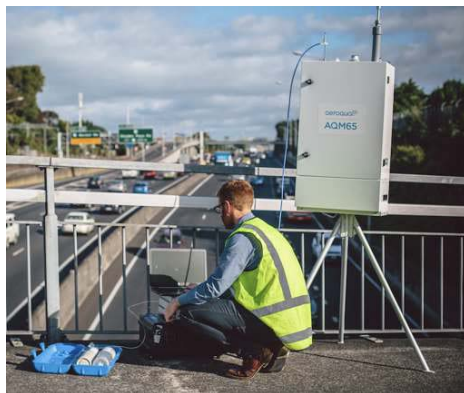▶ Weather proof, color coded connections

▶ Extend battery life with timer

OTHER ITEMS

Item	Description
Heavy duty tripod	Rugged aluminum tripod (1.8m, extendable to 3 m); 1 inch pole mount
Standard tripod	Speaker-stand tripod for suitable for short to mid-term monitoring projects.
Wall or Pole Mount	Brackets for wall or pole mounting of the DS, AQS or AQM65
Large Pelican Case	Customized to fit fully assembled monitoring DS/AQS and standard tripod (45 x 25 x 15)
Small Pelican Case	Smaller case to fit DS/AQS with no inlet attached (32 x 18 x 11)

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CALIBRATION OPTIONS

Item	Description
Dust Monitor Kit	Flowmeter for PM module, leak gauge, zero filter, connections, tubing and service accessories
Dust and Gas Monitor Kit	Dust monitor kit plus teflon tubing and fittings for gas calibration, gas calibration regulator (0.1 L/min)
High-spec Flowmeter	Flowmeter (0.01 – 20 L/min), battery pack, filter and luer fittings for AQS and AQM65 (gas modules)
Portable Gas Calibrator	Portable 2-channel calibrator includes integrated diluter, zero air source and gas regulator
Ozone Calibrator	Portable ozone generator and calibrator for the AQS and AQM65 ozone gas module
Automated Calibration System	Integrated 2-channel module includes mass flow controller, zero air source, regulators and enclosure

BENEFITS

▶ Push connect fittings

▶ Calibrate directly from cylinder for VOCs

▶ NIST Traceable calibration methods

▶ Automated calibration (AQM65 only)

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DATA MANAGEMENT & REPORTING

Item	Description
Aeroqual Cloud	Remotely access your real-time monitoring data and manage your monitor network
Eagle.io Platform	IoT data management platform for complex projects and advanced data analysis
Tableau Reporting	Automated PDF reporting for your projects with customized layout and company branding
Custom Tools	Design customized tools in eagle.io with our team of programmers and engineers

BENEFITS

▶ Manage your data network from anywhere

▶ Visualize your data in real-time with dashboards

▶ SMS/Email alerts for exceedances and instrument offline

▶ Two-way communications for remote access to monitor

▶ Automated PDF reports with Tableau integration