Air Quality Monitoring Solutions

Solving your
Monitoring Problems
to make your life easier

SPECTO
TECHNOLOGY
A WORLD OF SOLUTIONS

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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.
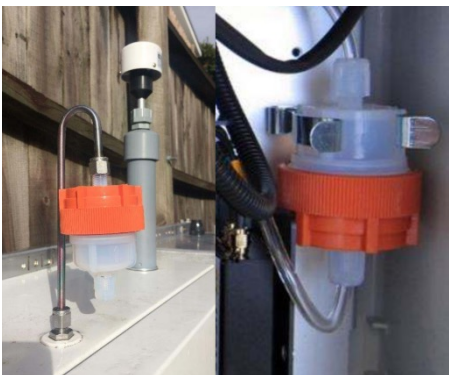

BASE SYSTEM

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, CH_4)
Air Quality Monitoring Station (AQM65)	Monitor for PM and up to 8 gaseous pollutants simultaneously (VOCs, NO_2, NOx, SO_2, CO, O_3, CO_2, H_2S, CH_4)

BENEFITS

▶ **Fully assembled – set-up in minutes**

▶ **Defensible data – calibrate to NIST standards**

▶ **Remote monitoring – reduce site visits**

▶ **Automated reporting and data analysis**

SYSTEM UPGRADES

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
Vibration Monitor	ISEE Standard Seismograph with Triaxial Geophone
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
Custom Integration	4 – 20 mA and digital inputs/output for custom instrumentation integration (Mercury Analyzer, Black Carbon) and control of process equipment

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**

AIR QUALITY MONITORING SYSTEMS

POWER OPTIONS

Item	Power Supply	Power Duration
Mini Powermate	30 Ah Lithium Ion portable battery pack (DC) and AC charger	15 hours
Midi Powermate	50 Ah Lithium Ion portable battery pack (DC) and AC charger	28 hours
Ultra Powermate	Weatherproof, solar compatible enclosure for 2 x 110 Ah batteries (portable with wheels)	100 hours
Aluminum Enclosure	Weatherproof, solar compatible enclosure for 2 or 3 x 110 Ah batteries (pole mounted)	100 - 150 hours
Solar Kits	Includes battery enclosure, 150W solar panels, mount and cables	All year around
Programmable Timer	On/off daily timer with options for each day of the week	NA

BENEFITS

▶ **Lightweight and easy to set-up**

▶ **Weather proof quick connectors**

▶ **Remote solar power diagnostics**

▶ **Expandable Modular Design**

OTHER ITEMS

Item	Power Supply
Quick Connect Cables	We install external cables to the Aeroqual base for DC power, weather stations and noise monitors
Tripods	Heavy duty and standard aluminum tripod with brackets for monitor and battery pack pre-installed, and extendable weather station pole mount.
Pelican Cases (Large/Small)	Transport moniitors directly custom cases for tripod, battery packs, weather station and more.
Calibration Kits	Flowmeters, leak gauges, zero filters and portable gas calibrators

AIR QUALITY MONITORING SYSTEMS

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DATA MANAGEMENT & REPORTING

Item	Description
Aeroqual Cloud	Remotely access your real-time monitoring data and manage your network (2-way communications)
Eagle.io Platform	Our data management platform for complex project requirements and advanced data analysis
Aeroqual Reporting	Site contribution dashboards and daily PDF reports in compliance with SCAQMD Rule 1466 and NYSDEC DER-10 CAMP guidelines.
Tableau and Eagle.io Reporting	Automated PDF reports including layout, graphs, tables and company branding. Issue daily, weekly or monthly - we have templates available and can design new reports on request

BENEFITS

▶ **Manage your data network form anywhere**

▶ **Visualize your data in real-time with dashboards**

▶ **SMS/Email alerts for exceedances and hardware health**

▶ **Two=way communications for remote access to monitor**

▶ **Automated PDF reports for CAMP projects**