





Who We Are

World-Class technical support, equipment and equipment servicing... Beyond Measure.

Since 1972, CleanAir Engineering has provided the air quality industry with leading-edge technology, technical expertise, and innovative thinking. We are one of the world's oldest independent environmental monitoring companies, with our roots firmly planted in source testing.

Today, in addition to air and gas measurement equipment rental and sales, CleanAir offers services across the environmental testing spectrum: ambient air monitoring, consulting, lab analysis, source gas testing, and thermal performance and efficiency testing.

Our vast equipment resources enable us to exceed expectations, providing clients with the tools they need to collect the defensible data they demand—even for the most challenging applications.

Our *Instrument Rental* and *Express Sales* divisions provide solutions for CEMS, ambient, leak detection, industrial hygiene, and stack testing.

World-Class Technical Service

- Five Technical Centers Worldwide
- Full Inspections on Every Rental
- Expert Consultation

Best-in-Class Instruments

- Over \$14MM in Inventory
- CEMS design
- Next Generation Emission Measurement
- Custom Manufacturing
- Unmatched Rental Equipment Quality

Unparalleled Assistance

- Technical Training in the Field and In-House
- Data Collection
- Troubleshooting and Live Support

Calibration and Repair

- Over 50 Years of Experience
- Repair available for Most Modern Analyzers
- Industry-Leading Service, Guaranteed
- Calibration Gas Rentals









Aeroqual AQS 1 and Dust Sentry Pro

Feature Overview

Customizable and Built to Suit

- With AQS 1 or Dust Sentry with PCX, measure multi-fraction PM simultaneously
- With AQS 1, measure up to 3 gases plus PM, weather and noise

Versatile, Robust Hardware

- IP65 Glass-Fibre Reinforced Polyester (GRP) cabinet with aluminum solar shielding
- Lockable enclosure
- Tripod or wall mountable, with bracket
- Optional solar power with battery backup

Flexible Communication, Powerful Software

- Out-of-the-Box Wi-Fi capable, or add an optional cellular modem
- Access real-time data remotely
- Set real-time, customizable email/SMS alerts
- Beautiful, browser-based web interface

Measurement Parameters

- Simultaneous PM10, PM2.5, PM4, PM1 and TSP
- 3 gases simultaneously:
 - O₃
- HLS
- NO₂
- SO₂
- CO
- · CHÎ
- VOC (high)
- VOC (low)
- Weather
 - Built-In RH and temperature
 - Optional Airmar or Met One multi-sensor

Nephelometer-Equipped units measure only one particulate fraction: TSP, PM10, PM2.5, or PM1.



Near Reference, real-time particle monitor, plus gas and weather

Pre-approved for South Coast AQMD 1466 PM₁₀



Sensor Technology

Measuring Particulate

Nephelometer

Hardware component that reads all particulate in the air sample and uses a cyclone to separate out the PM cut to be measured. Can only read one PM cut at a time, depending on the inlet cyclone installed. These units can be set up to read PM₁, PM_{2.5}, PM₁₀ or TSP.



Aeroqual Cyclone (in Silver)

Laser Particle Counter / PCX

An LPC module pulls a complete sample and uses a laser to count particles based on size, calculating readings based on the counts. These modules can simultaneously measure PM_{1} , PM_{25} , PM_{10} and TSP.

Measuring Gases



Aeroqual AQS 1 can be equipped with up to three modular gas sensors.

Modules for measuring seven various gases plus VOCs are available, making units easily customizable to suit the needs of your project.

Sensors use various measurement technologies suited to each compound,

including: gas sensing semiconductors (GSS), gas-sensing electrodes (GSE) and photoionization detectors (PID).

Environmental Sensors

Acoem/Met One MSO

- Wind Speed and Direction
- Temperature
- Humidity
- Barometric Pressure



Airmar 200WX

- GPS Location
- Wind Speed and Direction
- Temperature
- Humidity
- Barometric Pressure
- Compass



Cirrus MK427 NoiseSensor

- 30 to 100dB(A) standard range
- Automatic self-calibration
- 1 meter length



Vaisala WXT536

- Wind Speed and Direction
- Temperature
- Humidity
- Barometric Pressure
- Rain





CleanAir and Aeroqual

Aeroqual Cloud



Aeroqual's integration of hardware and software shines on Aeroqual Cloud, web-based data analysis and visualization suite.

CleanAir Expert Services

Industry-Leading Technical Support

CleanAir service begins on your first call, when we pair you with the best air measurement solution for your project. Leverage our expertise throughout your project or over the lifetime of your Aeroqual product.

Custom Solar System and Power Backup Design

For all remote monitor deployments, CleanAir can design a solar power solution that works for you, wherever you are.

Deployment, Installation, and Maintenance

CleanAir's technical field team is available to install and maintain your AQS 1 or Dust Sentry systems. Or, we can train you on-site!

Custom Data Analysis Solutions

Utilizing the Aeroqual Cloud API and Bentley Systems' eagle.io data platform, CleanAir experts can help you customize an analysis solution or visualization that compliments your workflow and meets your needs for any project.



- Actionable data
- Powerful visualizations
- Alerts via SMS / email within 60 sec.
- Remotely control monitor settings
- Easily share data
- Enhanced remote tech support tools
- Customizable reports







Global Leaders in Air and Gas Measurement and Thermal Performance Testing.

Chicago

500 West Wood Street Palatine, IL 60067

Houston

321 Century Plaza Suite 110 Houston, TX 77073

Pittsburgh

110 Technology Drive Pittsburgh, PA 15275

Seattle

13720 24th Street East Units 102 and 109 Building E Sumner, WA 98390

Knoxville

7936 Conner Road Powell, TN 37849

France

360, avenue de la Rasclave Z.1. Braye de Cau 13821 La Penne-Sur-Huveaune France