

Complete Utility MATS Monitoring Solutions

We understand your business perspective in complying with the Utility Mercury and Air Toxic Standards (MATS). Whether you need assistance in dealing with your monitoring challenges or studying existing conditions in your plant, we are ready to support you with technologies, expertise and over 40 years of experience building monitoring systems. Equipped with complete solutions that are tailored to meet your needs, we are more than an instrument supplier, we're your partner in compliance.

When NO_x and SO₂ monitoring solutions were needed for the Acid Rain program, we were there. When the U.S. EPA enacted PM-2.5 monitoring requirements, we were there with an established federal reference method. When the Clean Air Mercury Rule (CAMR) was promulgated and a solution for mercury monitoring was needed, we were there, and as the challenges of the Utility MATS arise we will be there too, with innovative solutions to keep your business moving forward.

Instrument Solutions Include:

- Mercury monitoring with the industry leading Mercury Freedom System
- Dry-basis HCl measurement with the Model 15i HCl analyzer
- Pulsed Fluorescence Model 43i SO₂ Analyzer

Solutions in Development:

- Dual method particulate measurement using a PM System
- Multiple gases in a single FTIR CEMS
- Accurate continuous monitoring with an SO₃ CEMS

Are you ready to start monitoring?

Get started by contacting your local Thermo Fisher Scientific representative or visit our website at www.thermoscientific.com/aqi.

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Product Solutions:

● Mercury Monitoring

Mercury monitoring with the industry leading

Mercury Freedom System

- Designed to meet U.S. EPA 40 CFR Part 75 requirements
- Complete integrated solution comprised of an analyzer, calibrator, probe controller and probe
- iSeries platform advantages provide ease of use & simple maintenance

● Hydrogen Chloride Monitoring

Dry-basis HCl measurement with the Model 15i

Hydrogen Chloride (HCl) analyzer

- Gas filter correlation HCl analyzer
- Enhanced user interface and electronics design optimizes product commonality
- Ethernet connectivity and flash memory for increased data storage and user downloadable software

Development of Multi-Gas FTIR CEMS

- Cost effective solution for measuring multiple gases, including HCl, from combustion sources
- Engineered utilizing the Nicolet Spectrometer optimized for compliance monitoring
- Designed to monitor HCl in accordance with PS-15 standards

For more information please visit online at www.thermoscientific.com/aji or contact a representative.

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● Sulfuric Oxides Monitoring

Pulsed Fluorescence Model 43i Sulfur Dioxide (SO₂)

Analyzer

- Pulsed fluorescence SO₂ analyzer
- Enhanced user interface and electronics design optimizes product commonality
- Ethernet connectivity and flash memory for increased data storage and user downloadable software

Development of Sulfur Trioxide (SO₃) CEMS for enhanced ACl performance

- Quantum Cascade laser spectroscopy for increased selectivity and high sensitivity
- Inertial probe built for challenging process environments includes built-in SO₃ generator
- Easily integrated, advanced software platform

● Particulate Monitoring

In development of an advanced dual method particulate measurement using a PM System

- PM System uses light scattering calibrated to an in-line TEOM to offer direct mass concentrations
- Designed to measure filterable particulate, in accordance with PS-11 standards
- TEOM/Dual scattering technology indicates changes in particulate characteristics