Company Overview

Opacity and Dust Concentration Monitors for Emissions and Process Monitoring

Environmental Monitor Service, Inc. was founded by James Cognetta who possesses over 45 years in the opacity and dust monitor industry. As a former Owner/Vice-President of Dynatron, Inc., he was with the company from its inception in 1972 until its sale in 1989. He and his partners pioneered many of the technology that is still used today in the opacity and dust monitor industry.

In 1990, Mr. Cognetta took his knowledge and expertise gained during these years to his new company, Environmental Monitor Service. His vision was to provide his customers with the highest level of reliability, service and support. Through his hard work and dedication, EMS has become synonymous with quality, dependable opacity and dust monitors as well as factory and field service which is second to none.

Environmental Monitor Service offers a complete line of opacity and dust monitor systems for air pollution control, including coal and oil fired boilers, cement kiln clinker, dual fired package boiler, crematoriums, ship board stacks, ESP control, Power Utility, Recovery boiler, and more. Additional offerings include engineering support during installation, on-site certifications, service and support after the sale and preventive maintenance packages. EMS has been in the air pollution control and energy industries for over 29 years.

Our broad range of Opacity and Dust Monitors are suitable for both emission monitoring and process control. EMS can fulfill all your measurement requirement's-whether you need a specific device or a tailor-made system.

Applications

Our broad range of Opacity and Dust Monitor systems is suitable for both emission monitoring and process control. Well-established in all industries, EMS can fulfill all your measuring requirements- whether you need one monitor or a custom engineered multi-point system.

Emission Monitoring

Continuous and precise-our Opacity and Dust monitors provide accurate and dependable readings in flue-gas and exhaust-gas ducts. This assures that you adhere to the permissible permit limits. They meet the requirements of US EPA PS-1, PS-11 and Procedure 3.

Process Measurement

The reliability, precisions and short response times of the Opacity and Dust monitors significantly enhance the efficiency of open and closed-loop control circuits. Instantaneous measurements reflect the current process status- even under extreme conditions such as high temperatures or pressures.

MEASUREMENT PRINCIPLE

Transmissometry: When a light beam passes through a mixture of gas and particles, its intensity is effected by the particles because of absorption and scattering. The more particles in the light beam, the greater the reduction. By comparing the intensity of the initial light and emerging light beams enables the accurate measurement of transmission. By converting the transmission values with a specific math formula, the measurement results are displayed.

Applications

Power Generation/Waste Disposal

- Power Plants
- Trash to energy incinerators

Application Filter Plants

- Monitoring/control of Electrostatic Precipitators
- Monitoring of bag houses

Process Industry

- Cement industry
- Iron & steel manufacturing
- Asphalt mixing plants

Other Applications

- Package Boilers
- Crematoriums
- Commercial fan control
- Plastics industry
- Chemical plants
- Shipboard incinerators

Service/Engineering

Field Service

- PS-1 Audit Testing and Reporting
- Opacity Monitor Startup
- Opacity Monitor Field Certification
- Procedure 3 Off-Stack Zero Service
- Preventative Maintenance

Factory Service

- Opacity Monitor Repair
- System Overhaul
- Factory Recertification
- Neutral Density Filter Sales and Certification
- Preventative Maintenance

Engineering Services

- Custom Engineered Systems
- System Replacement/Upgrade
- Site Design and Integration
- Multi-Point System Design
- Wireless Communication Integration
- Controller Screen Personalization