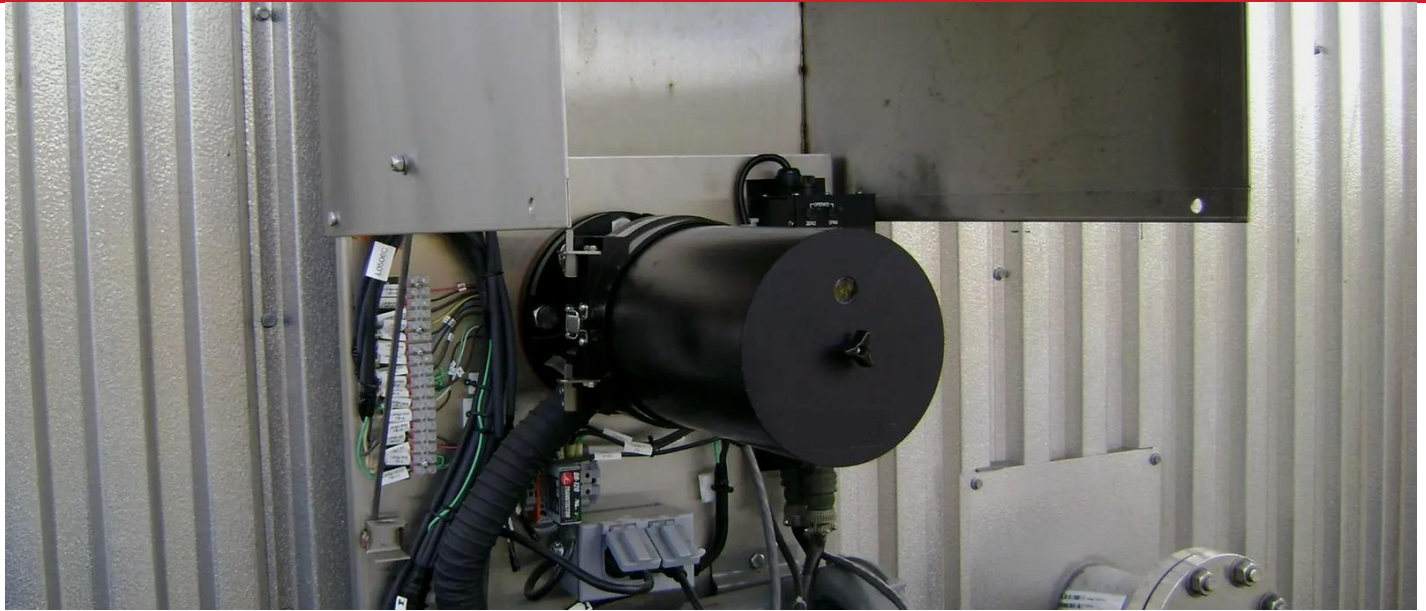




Engineered for Accuracy. Built for Dependability.

Monitoring systems, application engineering, and service from one experienced U.S. manufacturer.



SINCE 1990

Trusted monitoring expertise

FACTORY BUILT

Configured and tested for the site

VETERAN OWNED

U.S.-based sales and support

Environmental Monitor Service designs, manufactures, and supports industrial opacity, dust, and smoke monitoring systems. Every solution is selected around the application—combining dependable hardware, practical installation, clear diagnostics, and responsive service.

SYSTEMS • PARTS • SERVICE • EMERGENCY SUPPORT

emsct.com

Monitoring systems built around your application

From compliance-grade continuous opacity monitoring to straightforward smoke alarm control, EMS offers a focused product family backed by application engineering and long-term support.



EPA-COMPLIANT OPACITY MONITOR

WatchDog PS-1

- Meets or exceeds 40 CFR 60, Appendix B, PS-1
- Dual-beam design with automatic calibration
- Touchscreen interface, diagnostics, and digital communications



DUAL-PASS OPACITY & DUST MONITOR

WatchDog

- Continuous monitoring for compliance and process control
- LED source, through-the-lens alignment, and NEMA 4 optics
- Flexible analog, relay, and RS-485 MODBUS outputs



COMPACT SINGLE-PASS MONITOR

WatchDog 800

- Accurate, affordable live opacity reading
- Ideal for short paths, duct systems, crematories, and fan control
- Simple installation with dependable green-LED technology



SMOKE OPACITY DETECTOR & ALARM CONTROL

Guardian

- Selectable 5–20% smoke-opacity alarm setpoint
- Automatic calibration and dust compensation
- A practical fit for cremation, incinerators, and combustion equipment

Need help selecting a system? EMS will review the stack or duct, path length, process conditions, outputs, enclosure requirements, and compliance objectives.

Application-focused monitoring—not one-size-fits-all

EMS systems are built and tested for the actual installation. The result is a practical monitoring package that fits the process, communicates with plant controls, and remains serviceable for the long term.



Cremation & incineration applications



Stacks, ducts, boilers & process control

- Boilers
- Power Plants
- Cremation
- Ductwork

- Incinerators
- Process Control
- Cement Plants
- Paper Mills

- Baghouses
- Kitchen Exhaust / Fan Control
- Manufacturing Processes
- ESP Control

HOW TRANSMISSOMETRY WORKS

Measure light loss to reveal opacity and dust reading.

A stable light beam crosses the stack or duct. The monitor measures the amount of light received and converts that signal into an opacity or dust indication for the operator and control system.

40 CFR 60, Appendix B, PS-1
monitoring options

ASTM D6216
Performance-aligned designs

MODBUS / I/O
Plant-control integration

DESIGNED FOR THE SITE

Site-specific configuration improves installation and ownership.

- Configured to the physical path length and process
- Factory assembled, aligned, calibrated, and tested
- Selected outputs, alarms, purge air, and enclosures
- Lifetime LED replacement warranty on applicable systems

Service that protects accuracy, uptime, and compliance

Regular maintenance helps preserve data accuracy, extend monitor life, reduce unplanned downtime, and keep required quality-assurance activities on schedule.



BUILT TO SUPPORT THE FULL LIFE OF THE MONITOR

EMS supports our systems—and equipment from many other manufacturers.

- Experienced factory and field technicians
- Preventive and emergency support
- 24/7 emergency service available

FACTORY SERVICE

- Diagnostics and repair
- System overhaul and cleaning
- Calibration and recertification
- Parts, upgrades, and alignment verification

FIELD SERVICE

- Startup and commissioning
- Troubleshooting and repair
- Preventive maintenance
- Cleaning, alignment, and performance checks

COMPLIANCE SUPPORT

- PS-1 certification assistance
- Quarterly and annual audit testing
- Procedure 3 off-stack zero
- NIST-traceable neutral-density filter certification

MULTI-BRAND EXPERIENCE

EMS services opacity and dust monitoring equipment from EMS and many other manufacturers—helping plants consolidate support and keep legacy systems operating.



REQUEST A QUOTE OR SERVICE VISIT

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emsct.com/request-a-quote/



Veteran-Owned
Small Business