

Monitoring Solutions Advantages...

You'll find so many benefits in working with us:

- **Experience:**

Monitoring Solutions has been designing and building CEMS for close to 40 years. Our history contributes to an incredible knowledge-base and expertise with the widest variety of applications. With 100's of CEMS in the United States today we have the confidence and experience to tackle your next project.

- **Design Philosophy**

Our design starts with your first contact with one of our Sales Engineers who will work to understand all the facets of your application and come up with an optimum solution.

Choosing from different CEMS technologies allows us to tailor a package that's best for your application. When needed, we'll provide all the education necessary on CEMS including: technologies, installation and maintenance requirements, and regulatory assistance.

- **Multiple Technologies:**

Unlike some manufacturers we won't steer you towards only one solution because that's all we offer. Our products include both dilution and extraction CEMS.

Where high concentrations of gas are present, a dilution CEMS offers great performance with less moving parts and fewer components. This can reduce maintenance requirements.

Where lower concentrations need to be measured, extraction systems offer the reliability, and accuracy needed to meet your regulatory requirements.

Either system will do the job – which is used will always depend on the application.

Continuous Emissions Monitoring Systems (CEMS)



Just like applications, no two CEMS are exactly alike. One stack requires measurement of NOx and O₂, while another needs NOx, CO, SO₂ and opacity. One CEMS sits in a temperature controlled space, another sits on a hot turbine deck. One CEMS meets the Federal EPA 40CFR Part 60 requirements while another meets stricter State regulations.

Monitoring Solutions specializes in ensuring that your CEMS is a custom solution that meets all of your needs for compliance, reliability, ease of use, and ease of maintenance. We also strive to provide your CEMS at the best cost possible – both initial and long-term.

Applications include:

- Fossil Fuel Fired Plants (wood, coal, oil, gas, biomass, and more)
- Boilers
- RTO's
- Furnaces
- Gasifiers
- Any other combustion process/device requiring continuous gas monitoring



Monitoring Solutions Advantages (cont.)...

- **Components:**

Monitoring Solutions uses only time-proven, superior quality components to insure the maximum in reliability and minimum downtime. We make many of our own components; including air clean-up systems, calibration and sample control systems, our CEMFlow® stack flow monitor and our own CEMDAS Data Acquisition System.

All the components in our CEMS come from top manufacturers in the industry including:

- Probes
- Umbilicals
- Analyzers
- PLC's
- Cabinets
- Shelters
- Opacity Monitors

- **Configuration Options:**

Wherever your CEMS will be located, there is a solution to keep it well protected. From NEMA 1 and NEMA 12 cabinets to complete environmental enclosures, we have the answer.

- **Quality Construction:**

You won't find a more quality made CEMS. With clean wiring and tubing runs, concise layouts, and terminal blocks for simple interconnections, you'll recognize immediately that our CEMS are made with ease of maintenance in mind.

- **Engineering Assistance:**

Besides designing your system, our engineers can assist with a myriad of things to make your project easier including:

- Regulatory assistance
- Guidance for probe placement
- Permit reviews
- QA/QC manuals and Monitoring Plans
- and more...