

Accurate. Reliable. Cost Effective.

Emissions Monitoring for Compliance & Process Improvement



Dilution Extractive CEMS



Features & Benefits

- ▶ Designed for maximum availability & ease of maintenance
- ▶ State of the art components are chosen for your specific application
- ▶ Rugged durable design built to last
- ▶ Dilution Extractive, wet basis measurement design
- ▶ Carefully Sample measurement technology for your specific application
- ▶ Sample system designed for fast response
- ▶ Open access panels, analyzers and parts arrangement for easy access and custom applications
- ▶ Modular design available in cabinets, open racks and shelters which allows for ease of adding or removing gas analyzers, flow, opacity and particulate monitors, etc.
- ▶ Applies to boilers, turbines, furnaces, incinerators and heaters for power generation, biomass, cogen, hospitals, universities, refineries, glass manufacturers, steel, iron and other industrial applications

We are the CEMS integration, reporting and service experts. We've designed our CEMS with the service technician in mind. This allows for ease of maintenance, reduced downtime and guaranteed certification, year after year. With sample system components easily accessible, it's easy to follow your EPA QA/QC plan. CEMTEK is there for start-up training, certification and long-term maintenance. Our parts experts are always available to meet all your CEMS parts needs and ensure accurate, reliable reporting. Now, more than ever, it's easier for our customers to keep their long term cost low.

Product Specifications

Sample Probe:	<ul style="list-style-type: none"> « Standard 1.5 meter unless specified « Purge/blowback on particulate laden flue gas « Initial filtration in heated filter assembly enclosure 	<ul style="list-style-type: none"> « Hastelloy and other material available for temperatures over 700° F « Pressure and temperature compensation standard dilution probe features
Sample Line:	<ul style="list-style-type: none"> « 3/8" sample tube in all bundles « 1/4" calibration tube where applicable « Eductor air, isolation valve, pressure and compensation tubes standard in 7 tube design « Isolation valve, pressure/temp compensation or spare tubes available 	<ul style="list-style-type: none"> « All tubes, power and signal wires will mate with probe selected above « Application dependent custom configurations available
Sample Conditioning System:	<ul style="list-style-type: none"> « Extremely low sample volume ensures minimal plugging and transport issues for reliable long term operation between maintenance intervals « Pressure and temperature compensation is critical to dilution design « Multiple Sample System in one cabinet or shelter 	<ul style="list-style-type: none"> « Custom design available for inlet SCR, Scrubber and wet stack applications « Wet design means no moisture measurement or correction factor for mass emission reporting « Multiple Sample System in one cabinet or shelter
Analyzers:	<ul style="list-style-type: none"> « Standard measurements include: NOx, CO, CO₂, O₂, SO₂, NH₃, HCl, VOC's « Analyze using traditional or specialty analyzers « Flexibility of design includes experience with many types of analyzers 	<ul style="list-style-type: none"> « Daily auto calibration meets EPA requirements « ABB, Ametek, Brand Gaus,CAI, Durag, EMRC, KVRZ, Land, Rosemount, Servomex, Sick Maihak, Siemens, T-API, Thermo Fisher, TMLI, Unisearch, Western Research
Controller:	<ul style="list-style-type: none"> « Allen Bradley, GE, Modicon PLC's, Data Loggers (other options available) « 7 days data storage backup « Optional OIT's (Operator Interface Terminals) 	<ul style="list-style-type: none"> « Standard alarm, calibration package and data transmission, diagnostic features that help to prevent or minimize down time
Enclosures:	<ul style="list-style-type: none"> « Flexible design for cabinets « Compact for space constraints « Single bay available « Dual bay standard for 1-2 CEMS 	<ul style="list-style-type: none"> « NEMA 12, 3R, 4X, Stainless Steel or Fiberglass « Single or redundant HVAC units available « Walk in shelters - standard design or custom « Custom enclosures available
Other Options:	<ul style="list-style-type: none"> « UPS « Plant air refrigeration, drying and filtering systems « Class I, Div II, CSA, UL (electrical options available) « DAHS - Data Acquisition and Handling System 	<ul style="list-style-type: none"> « USEPA 60/75, all state & local regulations and SCAQMD « Transformer « Chart Recorder



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