

Accurate. Reliable. Cost Effective.

Emissions Monitoring for Compliance & Process Improvement



Cemtek Fully 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
- ▶ Fully Extractive, Dry 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 allows for ease of adding or removing gas analyzers, flow, opacity and particulate monitors
- ▶ 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"> « Stainless Steel standard material « Length standard 1.5 meter unless specified « NH3 converters and scrubbers « Permeation dryers 	<ul style="list-style-type: none"> « Hastelloy and other material available for high temperature and corrosive applications « Purge/blow back on particulate laden flue gas (i.e. coal, biomass, incinerators, refinery gas)
Sample Line:	<ul style="list-style-type: none"> « 3/8" sample tube in all bundles « 1/4" calibration tube application dependent « 3/8" instrument air for purge application dependent « Isolation valve, pressure/temp compensation or spare tubes available « All tubes, power and signal wires will mate with probe selected above 	
Sample Conditioning System:	<ul style="list-style-type: none"> « Standard 4-5 liters per minute flow « Standard gas compressor cooler « Thermoelectric or Perma Pure dryer optional for specific application « NH3 scrubber in line before analyzers in all SCR, SNCR, UREA, NH3 injection applications « Standard open flow panel design for one or two Sample Conditioning Systems in enclosure « Multiple Sample Conditioning 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 FTIR, TDL and GC available (application specific) « Flexibility of design includes experience with many types of analyzers « Daily auto calibration meets EPA requirements « Flow monitors, opacity and particulate monitors « 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 or more 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
	<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 « Enclosures for cal gas available
Other Options:	<ul style="list-style-type: none"> « UPS « Transformer « 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 « Plant air refrigeration, drying and filtering systems



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