



Model 300 Continuous Emissions Monitoring System

PRE-ENGINEERED CEMS, TO MONITOR NO_x, CO, O₂

Features

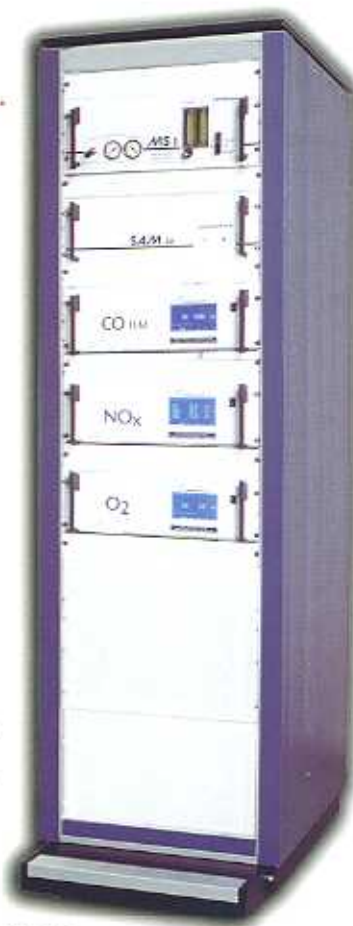
- Pre-Engineered to Reduce Cost & Delivery Time
- Full Extractive Design
- Cold/Dry Sample Conditioning System with:
Permeation Probe & Unheated Sample Line
OR
Heated Sample Line & Thermo-Electric Cooler
- Guaranteed Certification per EPA Regulations
- Low Capital, Operational and Maintenance Costs
- Built-in Data Acquisition & Reporting System (DARS)
- Automatic Daily Calibration & Periodic Probe Blowback

Applications

- Gas & Oil Fired Boilers and Turbines
- Coal fired boilers
- Incinerators
- Industrial Boilers & Furnaces
- Cement Kilns
- Pulp & Paper
- Chemical & Petrochemical Plants



SEC Sampling System



The pre-engineered Altech Model 300 CEMS is a fully automatic, field proven CEMS that will meet your State and EPA monitoring and reporting requirements. Easy to install and operate, this system has minimal maintenance costs and requirements. Extremely accurate, the Model 300 utilizes full extractive sampling using the Cold/Dry technique.

As a standard, the equipment is packaged in a NEMA 12 cabinet. For outdoor locations, a prefabricated instrument shelter can protect the CEMS equipment from the weather.

Model 300 CEM

In the standard design, sample gas is extracted through a probe with a heated filter to remove particulates. A heated umbilical carries the sample to a dual pass thermo-electric condenser, in the analyzer cabinet, to remove moisture.

Optionally, our SEC PROBE dries the sample at the stack, with its integrated permeation dryer, and transports the dry sample to the analyzers via *unheated* sample line.

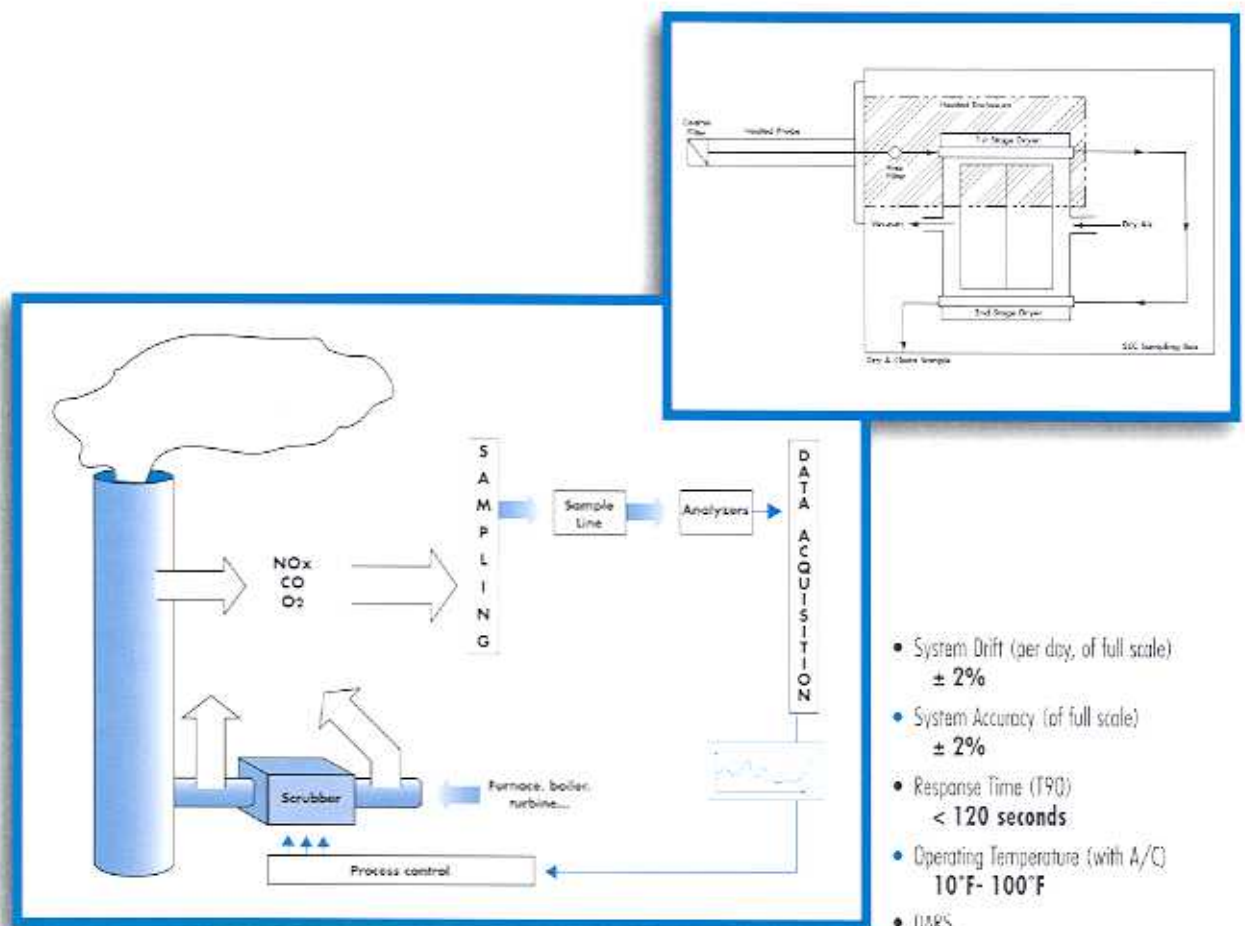
A system controller logs the data from the analyzer system and transmits it to the PC located in the control room or in the instrument shelter. The PC prints reports and archives the data.

SEC Sampling System

The sampling system consists of two components, a heated sampling probe tube with a 10 µm tip filter and the sampling case with a heated 0.5 µm filter and dual stage permeation dryers.

The SEC Drier is made up of two concentric, large diameter tubes. The inner sample tube is a semi-permeable material which selectively allows the water moisture to migrate into the outer Dry Air Tube, while keeping the gases of interest totally unaffected.

The dry air carries the moisture to a vent while the dry gas sample is delivered through an unheated sample line to the analyzers.



Specifications

- Measurement Technique

NO_x: Chemiluminescence
 CO: Gas Filter Correlation
 O₂: Zirconium Oxide

- Range

NO_x: 10-1000 ppm (selectable)
 CO: 10-1000 (selectable)
 O₂: 0.1-100% m (selectable)

- System Drift (per day, of full scale) ± 2%
- System Accuracy (of full scale) ± 2%
- Response Time (T90) < 120 seconds
- Operating Temperature (with A/C) 10°F- 100°F
- DARS

IBM compatible PC loaded with CEMS data acquisition software, printer, monitor, keyboard, modem, and backup data storage.



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