

CEMS-DE Series

Dry Extractive

Ensure environmental compliance and improve overall performance with CEMS

The SpartanPRO™ Continuous Emissions Monitoring System (CEMS) Dry Extractive is a turnkey solution designed to help industrial plants prove compliance with environmental regulations and reporting requirements. The system uses the cold extractive measurement technique, eliminating the need to correct for moisture content.

Automated calibration and validation features help facilitate the zero and span gas drift checks required for procedures, minimizing maintenance, and ensuring ongoing emissions reporting compliance. With data redundancy and automatic report generation to simplify adherence to compliance requirements.



- Turnkey system with cETL approval
- Featuring a built-in controller
- Touch-screen friendly user interface
- Integrated sample conditioning system
- Datalogging for events or maintenance
- Comprehensive reporting capabilities
- Low cost / High flexibility
- Modular configuration

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The SpartanPRO™ CEMS-DE is designed to measure the emissions from boilers, fired heaters and other large combustion plants. The system provides continuous, extractive measurement of CO, NOx, SO2, CO2 and O2. It is expandable and can also measure NO2, N2O, total hydrocarbons and low-level NOx. Compact and pre-engineered, the modular SpartanPRO™ CEMS-DE is complete with a heated sample probe, sample line, and a sample conditioning system for the analyzer.

CT4400



CEMS

- Natural Gas Boilers
- Turbines
- Medium combustion plants
- Large combustion plants with solid, liquid, and gaseous fuels.
- Co-incineration of waste according to Industrial Emissions
- CO2 measurements for carbon trading



Heated Sample Probe

Technical Specifications	
Environment	10 to 25°C (50 to 77° F)
Ingress Protection	NEMA 12
Dimensions	85" x 31 1/2" x 33 1/4"
Weight	753 lbs.
Power Requirements	120 VAC 50/60 Hz
Area Classification	General Purpose
Communication	Ethernet, Modbus TCP/IP

Options

- CT4400 and CT5400 – multi component spectrometers, providing reliable and steady state analysis. Provides detection of NO, NO2, SO2, CO, CO2, O2.
- XEGP – multi component detection using NDIR, UV, and paramagnetic O2 sensors.
- XECLD – low level detection of NOx from 0-5ppm up to 5000ppm.
- Sample Probe assembly
- Heated Umbilical
- Stack Flow Measurement
- Wet O2 Measurement