



SmartCEMS® Mobile CEMS

Product Overview

The **SmartCEMS® Mobile CEMS** is a complete mobile monitoring system on wheels and an integral part of a predictive emission monitoring system (PEMS) that provides continuous stack gas analysis for pollutants and diluents under U.S. EPA 40 CFR Part 60 and/or U.S. EPA 40 CFR Part 75 regulations. The Mobile CEMS will meet the requirements for use in reference method testing both for model development and PEMS QA. The Mobile CEMS is equipped with analyzers for stack gas flow, concentration of NO_x, SO₂, H₂S, VOC, CO, CO₂, and O₂. The Mobile CEMS can be provided complete with data acquisition system and controls for fully automated operations.

The SmartCEMS Mobile CEMS can be used on most combustion sources with stack gas exhaust up to 500 °C and with special probe up to 1000 °C. The Mobile CEMS is typically connected to a probe, sample line, and sample interface panel so that stack testing can be done without climbing the stack. CMC offers a complete package with the Mobile CEMS and the ancillary equipment. Typically, the Mobile CEMS is delivered with a complete initial set of certified calibration gas cylinders. The only requirement for the Mobile CEMS is a power supply.

Product Features

HARDWARE SPECIFICATIONS

- Trailer insulated and equipped with safety system
- Cylinder gas delivery system and gas cylinders
- 415 VAC power supply cabling and sampling lines
- Robust sampling system design with hot/wet and dry sampling
- Gas analyzers for NO_x, SO₂, CO, CO₂, and O₂
- Allen Bradley ControlLogix PLC with programming

- Calibration and sampling controllers and solenoids
- Quick connections at sample interface panel

HARDWARE OPTIONS

- Data acquisition system; Truck to pull the trailer; Sour gas analyzers (H₂S and VOC); Stack gas volumetric low (special probe)

