

The Sycamore CEM Hydrogen Sulfide Continuous Emission Monitor and Integrated Sampling System

The Sycamore CEM is a flexible Hydrogen Sulfide Gas Monitoring System capable of accurately measuring H₂S concentrations as low as five parts per billion (5 ppb). Configurable as a single, dual or three-point monitoring system, it can be used to monitor the inlet, intermediate and outlet of odor control systems using advanced OdaLog Hydrogen Sulfide Gas Logger technology. The OdaLog(s) provides continuous 4 to 20 milliAmp real-time output. Available as an option is a sophisticated PID controller that can use the 4-20 mA output to provide feedback loop control of chemical additions. Each OdaLog is coupled with its own compact, dedicated sampling system to deliver the sample from a remote location to the instrument at the proper flow rate. The sampling system removes moisture from the sample stream and automatically purges any accumulated water.



Monitors:

- Wet Scrubbers
- Carbon Adsorbers
- Biofilters
- Biotrickling Filters
- Bioscrubbers

Proven Technology Monitoring H₂S at the Inlet and Outlet of Odor Control Systems

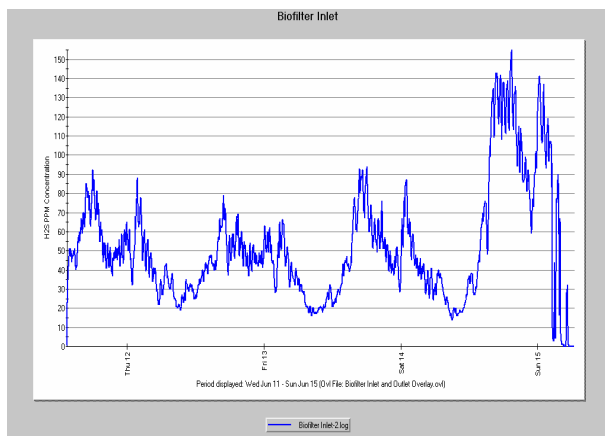
Detection Instruments Corporation

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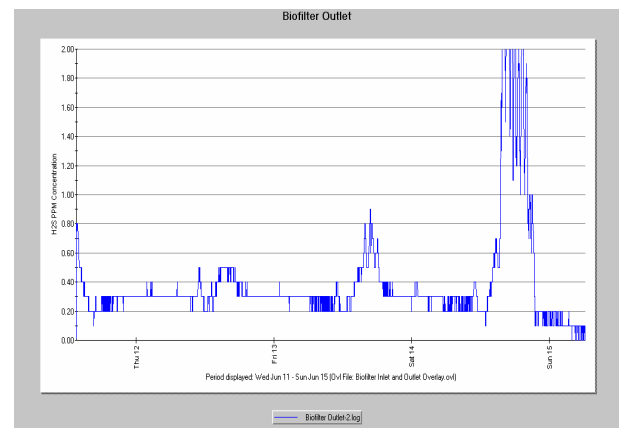


OdaLog data

In addition to providing real-time data via a 4 to 20 mA signal, the OdaLogs also store the data in their built-in data loggers. The data can be extracted using the OdaLog software to provide the data in a graphical format. An optional PID controller may be used for feedback loop control.



Inlet data



Outlet data

System Description

- A choice of three ranges offers maximum flexibility. Choose from:
 - CEM53 monitor measures from 0 – 200 ppm
 - CEM51 monitor measures from 0 – 20 ppm
 - CEM52 monitor measures from 5 ppb to 2 ppm
- Each monitor provides 4 to 20 milliAmp output
- Automatic data storage of 30,000 data points
- Continuous AC power
- Dual backup protection: UPS to handle brief power loss; internal battery backup of stored OdaLog data
- Moisture removal from sample stream
- Minimal maintenance
- Easy field calibration
- Temperature controlled fiberglass NEMA enclosure
- Optional PID controller for feedback loop control
- Optional air conditioning unit for hot climates

Warranty: 12 months when used in accordance with the operation manual

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