

# CEMS

## In-Situ Gas Analysis

**SICK MAIHAK offers in-situ and extractive systems for CEMS applications. Our products, sales, service and support capabilities make SICK MAIHAK a leader in continuous emission monitoring. An accurate and reliable emission monitoring system can save thousands of dollars in maintenance costs and potential fines. Contact us for more information.**



**In-Situ Installations -**  
Over 4,500 installations  
since mid-1980's



### In-Situ

- Direct gas measurement in stack/duct
- No sample conditioning system needed
- Non-contact measurement - suitable for use with aggressive or corrosive gases
- Short response times - ability to respond quickly to permit violations
- Low maintenance requirements
- Internal zero span testing to meet Part 60 requirements

### In-Situ Measuring Principles

- UV spectrometry
- IR filter correlation
- Electrochemical methods, i.e. zirconium dioxide

### Additional SICK MAIHAK products for CEMS applications

**FLAWSIC 100 Volume Flow Measurement** - Continuous, non-contact, and direct measurement supplies accurate and reliable measurements of the volume flow and gas velocity in flue-gas, exhaust-gas ducts or chimneys. Conforms with U.S. EPA specifications.



**OMD 41 Opacity and Dust Measurement** - Direct and instant measurement supplied through non-contact in-situ measuring technique features automatic zero point and span check cycle, automatic 4-point linearity check; high measuring reliability and low maintenance. EPA compliant with PS 1 opacity specification.

### Systems Engineering and Integration

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