



# CEMS II e

# Continuous Emissions Monitoring System CEMS II e

*Future of emissions monitoring is all about continuous monitoring of multiple gases according to the declining emission limits and ability to measure new pollutants. Gasmets futureproof, fully automatic solution and world-class support from our experts offers peace-of-mind throughout the lifetime of the investment.*



Modular design provides flexibility throughout the lifetime of the system: operation, maintenance and service.

## What is the CEMS II e?

Gasmets provides a complete CEMS II e solution package for continuous emission monitoring. It consists of system, lifetime service and support, all necessary documentation and training, and of course our expertise. The CEMS II e is a fully automatic and TÜV and MCERTS certified (QAL1) system based on FTIR (Fourier-transform infrared spectroscopy) technique.

The CEMS II e has a flexible design with versatile integration options. Both measuring and alarm information can be transferred to automation and reporting systems. The system is also equipped with automatic quality assurance features to assure seamless operation.

## CEMS II e consists the following modules:

- > CEMS II cabinet
- > Heated probe and sample line
- > Industrial computer
- > Sampling system
- > FTIR Analyzer
- > Oxygen analyzer (*Optional*)
- > Flame Ionization Detector, GFID (*Optional*)

## What is it used for?

The CEMS II e is used in a wide range of industrial processes and it is designed for continuous measurements of pollutants from hot, wet and corrosive gas streams. Typical uses include:

- / Waste Incineration Plants / Cement Plants
- / Power Plants / Aluminum Production
- / Fertilizer & Nitric Acid Production
- / Carbon Capture & Storage

## Which gases can be measured?

CEMS II e can simultaneously measure the following 16 gases as standard: H<sub>2</sub>O, CO<sub>2</sub>, CO, N<sub>2</sub>O, NO, NO<sub>2</sub>, SO<sub>2</sub>, HCl, HF, NH<sub>3</sub>, CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>6</sub>H<sub>14</sub> and CH<sub>2</sub>O as well as combination of components such as NO<sub>x</sub> and TOC. There is also an option for certified oxygen measurement.

For more available compounds or more information, please contact your local Gaset representative.

## CEMS II ef

CEMS II ef is available for certified TOC measurement with GFID. The certified measuring ranges are from 0–15 to 0–500 mg/m<sup>3</sup>.

## How does it work?

The system utilizes FTIR spectroscopy, which is a powerful technology for the simultaneous measurement of multiple gases. It's the industry's standard in many emissions monitoring applications. The measurement ranges can be changed easily and quickly (either extend or reduce) thanks to the Calcmet software and FTIR technology. System performance can be monitored with an optional and highly secure Insight digital solution to ensure regulatory compliance.

## Insight

Insight is a digital solution that helps operators stay compliant to emissions regulations, optimize everyday operations and reduce the risk of extended downtime. Key features include:

- ✓ Secure and centralized 24/7 remote access to CEMS II e/ef data
- ✓ Accessible view for ESG and sustainability reporting
- ✓ Smart alarm information
- ✓ Diagnostics features and predictive reliability-centered maintenance

## Why choose the Gaset CEMS II e?

- > Certified and fully automatic system with annual availability of 98.4%
- > Flexible in order to meet customer-specific requirements
- > Easy to operate & low-cost of ownership
- > Robust design for challenging conditions
- > The lowest uncertainties in the market (lower than required)
- > 6-month maintenance interval for all certified compounds
- > Worldwide technical service and support

Any questions? Ask more from our CEM experts: [contact@gaset.fi](mailto:contact@gaset.fi)



*With us,  
you buy with  
confidence.*

Our products represent **the pinnacle** of what can be achieved in the measurement of gaseous emissions using automated measuring systems. **We excel** in manufacturing reliable, sensitive, and cost-effective continuous emission monitoring solutions that represent the future of gas analysis. **We have a world leading reputation**, and we take pride in making sure all our current devices and future solutions are fully certified to the latest standards.

**Ready to take the next step with us?**



Gasmeter Technologies Oy  
Mestarintie 6  
01730 Vantaa, Finland

Tel. +358 9 7590 0400  
contact@gasmeter.fi  
www.gasmeter.com