



> Know what's in the air.



# CEMS II e

# Continuous Emissions Monitoring System **CEMS II e**

Emissions monitoring of tomorrow is about declining emission limits, continuous monitoring of multiple gases and ability to measure new pollutants.



## What is CEMS II e?

Gasmet manufactures and offers a complete solution for continuous emission monitoring. The Continuous Emission Monitoring System, the CEMS II e, is a fully automatic system based on FTIR (Fourier Transform Infrared) spectroscopy with TÜV and MCERTS certifications (QAL1).

Gasmet CEMS II e consists of the following modules:

- Industrial computer
- Sampling system
- Oxygen analyzer (Optional)
- FTIR Analyzer
- Flame Ionization Detector, GFID (Optional)

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.

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.

Specifically designed to increase flexibility with 19'' modules  
- taking care throughout the lifetime of the system: operation,  
maintenance and service.

## How is it used for?

The CEMS II e is used in a wide range of industrial processes that require continuous emission monitoring. The system is designed for continuous measurements of pollutants from hot, wet and corrosive gas streams. The system is used in:

- > Waste Incinerations
- > Power Plants
- > Cement Plants
- > Raw Gas Measurements
- > Compliance Measurements
- > Aluminum Production
- > Fertilizer & Nitric Acid Production

## Why choose the Gasmet CEMS II e?

- > EN 15267-3 certified with QAL1
- > 6-month maintenance interval for all certified compounds
- > Excellent annual availability of 98.4%
- > Flexible solution
- > Gasmet's own design, manufactured with 30 years of experience
- > Local, trusted and trained service and support

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

## Which gases can be measured?

The CEMS II e can simultaneously measure the following certified ranges:

Component	Certification range (min/max)	Unit
Water, H <sub>2</sub> O	0 – 30 / 40	Vol.-%
Carbon Dioxide, CO <sub>2</sub>	0 – 25	Vol.-%
Carbon Monoxide, CO	0 – 75 / 1500	mg/m <sup>3</sup>
Nitrous Oxide, N <sub>2</sub> O	0 – 100 / 500	mg/m <sup>3</sup>
Nitric Oxide, NO	0 – 150 / 2000	mg/m <sup>3</sup>
Nitrogen Dioxide, NO <sub>2</sub>	0 – 200 / 500	mg/m <sup>3</sup>
Sulfur Dioxide, SO <sub>2</sub>	0 – 75 / 1500	mg/m <sup>3</sup>
Hydrogen Chloride, HCl	0 – 15 / 90	mg/m <sup>3</sup>
Hydrogen Fluoride, HF	0 – 3 / 10	mg/m <sup>3</sup>
Ammonia, NH <sub>3</sub>	0 – 15 / 50	mg/m <sup>3</sup>
Methane, CH <sub>4</sub>	0 – 15 / 150	mg/m <sup>3</sup>
Formaldehyde, CH <sub>2</sub> O	0 – 20 / 90	mg/m <sup>3</sup>
Oxygen, O <sub>2</sub>	0 – 25	Vol.-%

Certified ranges only. Please contact your local Gasmet representative for more available Compounds and ranges and to ask for more information.

### 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>.



# Why Choose Gasmet

Gasmet is the number one FTIR analyzer and system manufacturer. We have supplied over 4,000 FTIR analyzers worldwide and have the highest installed base of onsite and industrial applications.

## Front Seat

We are at the forefront of development. We have 30 years of FTIR experience and have introduced several groundbreaking innovations, such as launching the world's first in-situ FTIR gas analyzer and the world's first portable ambient FTIR analyzer. Our teams of specialists are continuously improving our products to ensure that your FTIR analyzer investment is always future-proofed.

## Future First

The future belongs to everyone, and we think that everyone has the right to clean air. Therefore, we are persistently developing our future-proof solutions and support global actions in mitigating climate change. Our vision is to live on a green planet with less emissions.

## Global Presence

We know the importance of local support, globally. As our service and support network covers more than 70 countries, we can ensure local, high-quality technical support for our customers and guarantee the continuous availability of spare parts for our systems throughout the duration of their lifetime.



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