



> Know what's in the air.



# CMM AutoQAL

# Continuous Mercury Monitoring System **CMM AutoQAL**

Tomorrow's mercury monitoring requires measurements of low mercury levels, continuous operations, providing results online and considering the special characteristics of Hg. CMM AutoQAL meets these demands while offering the highest sensitivity on the market and excellent annual availability.

## What is CMM AutoQAL?

Gasmet manufactures and offers the market's only TÜV and MCERTS certified solution with an automatic and truly integrated QAL3 validation tool. The system has the lowest EN 15267-3 certified range in the world (0-5  $\mu\text{g}/\text{m}^3$ ). The system's highest certified measurement range is 1,000  $\mu\text{g}/\text{m}^3$  and even higher concentration peaks can be measured without any hardware changes. The QAL3 equipment is integrated to the system and performs the automatic QAL3 validation checks quickly and easily without any additional costs or manual work.

CMM AutoQAL consists of:

- Dilution probe
- Heated sample line
- Mercury analyzer
- Test gas generator

A heated dilution probe with a two-stage blowback system offers durability and reliability even in the most demanding conditions. Furthermore, the system's flexible design with 19" modules ensures easy handling and operation throughout the system's lifetime.



The lowest certified range in the world 0-5 µg/m<sup>3</sup>.

## How does it work?

Gasmet's mercury analyzer is based on the Cold Vapor Atomic Fluorescence (CVAF) measurement principle which offers the highest sensitivity in the world. The system is fully automatic, and the automatic calibrations are done at user-defined intervals. The CVAF technology and Gasmet's design ensure a continuous, precise and cross-interference free measurement of mercury without a need to sample the pre-concentration. The system measures the total gaseous mercury as the integrated thermal converter converts all mercury compounds into elemental mercury.

## Why choose the Gasmet CMM AutoQAL?

- > Continuous mercury monitoring with an automatic certified QAL3 validation tool
- > Fast and easy integrated QAL3 functionality
- > Future-proof with the lowest certified range in the world, 0-5 µg/m<sup>3</sup> (EN 15267)
- > Measures total Hg to ensure that zero Hg-derivates are undetected
- > The highest sensitivity in the market with a detection limit of 0.02 µg/m<sup>3</sup>
- > Excellent annual availability (99%)
- > Real-time results with excellent response time < 120 s
- > Software offers immediate results: Pass / Fail
- > No need for additional QAL3 equipment
- > Minimal operating costs
- > Worldwide technical service & support

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

## What is it used for?

The CMM AutoQAL is designed for continuous measurements of mercury from hot, wet and corrosive gas streams. The system is used in a wide range of industrial processes that require mercury emissions monitoring.

The system is typically used in:

- > Power Plants
- > Waste Incinerations
- > Cement Plants

### Certification ranges (Hg)

- 0 to 5 µg/m<sup>3</sup>
- 0 to 10 µg/m<sup>3</sup>
- 0 to 45 µg/m<sup>3</sup>
- 0 to 100 µg/m<sup>3</sup>
- 0 to 1000 µg/m<sup>3</sup>



# Why Choose Gasmeter

Gasmeter 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.



Gasmeter Technologies Oy  
Mestarintie 6  
01730 Vantaa, Finland

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