



# CMM/CMM AUTOQAL

# CONTINUOUS MERCURY MONITORING SYSTEMS CMM AND CMM AUTOQAL

Futureproof mercury monitoring requires continuous measurement of total mercury concentration according to the declining emission limits, online results and consideration of the special characteristics of Hg. Gaset's solutions meet these demands while offering the highest sensitivity on the market and world-class support from our experts throughout the lifetime of the system.

## What are CMM and CMM AutoQAL?

The CMM and CMM AutoQAL are TÜV and MCERTS certified solutions for continuous mercury monitoring. The systems are future-proof and both have the lowest EN 15267-3 certified range in the world (0-5  $\mu\text{g}/\text{m}^3$ ). The 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.

We offer full continuous mercury monitoring solution package which consists of the system, lifetime service and support, all necessary documentation and training, and our expertise.

## QAL3 tool explained:

The CMM AutoQAL system has an integrated certified QAL3 validation tool, which performs automatic QAL3 quality assurance tests quickly and easily. Thanks to this special tool, the operational costs are minimized, since external services for the performance of the QAL3 tests is not needed.

## What are they used for?

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



**TYPICALLY  
USED IN WI/WTE  
PLANTS, CEMENT  
KILNS AND POWER  
PLANTS**

## CMM system consists of:

- > Dilution probe
- > CMM cabinet
- > Heated sample line
- > Mercury analyzer
- > Test gas generator with an integrated QAL3 validation tool (CMM AutoQAL).

A heated dilution probe with a two-stage blowback system offers durability and reliability even in the most demanding conditions. System's modular design makes it possible to remove individual parts for maintenance or repair. This minimizes system downtime and makes the maintenance procedure easy and cost-effective.

## 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 (detection limit of  $0.02 \mu\text{g}/\text{m}^3$ ). The system is fully automatic, and the automatic calibrations are done at user-defined intervals. Thanks to the CVAF technology and sample dilution with nitrogen reliable and extremely accurate results are achieved, without interferences from other gases. An integrated thermal converter converts all mercury compounds to elemental mercury to measure total gaseous mercury.

## Why choose the Gasmet mercury monitoring system?

- > Certified and fully automatic system
- > Future-proof for declining emission limits
- > Easy to operate & low-cost of ownership
- > Robust design for challenging conditions
- > Minimized downtime due to fast and easy maintenance and automatic QAL3 test (CMM AutoQAL)
- > Worldwide technical service & support
- > 3-month maintenance interval (CMM)



Our very own technology ensures long term reliability, ease of use, and full compliance. We also provide high-quality service of the device and support for the customer throughout the lifetime of the investment. We walk you through the service process to ensure smooth and transparent onboarding. We are ready to be your full-service emission monitoring partner.

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

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?**

