



HG200 Mercury Analyser

The Opsis HG200 Hg analyser is a very sensitive tool for ambient air quality monitoring, for detecting mercury indoors and for monitoring in plants together with Opsis MercuryMan dilution system.

The HG200 analyser is designed for monitoring the elementary mercury, Hg(0), concentrations in the ambient air, from health-hazardous down to the environmental background levels.

Thanks to the analyser's rigidity and reliability and the incorporated microprocessor system, the analyser can be brought to any place in order to immediately detect the Hg concentration in the ambient air by simply pressing a button. In addition, our dedicated software makes the instrument easy to connect to a PC for long term unattended operation, e.g. in air pollution monitoring stations.

The HG200 can be used together with Opsis MercuryMan

CEM system to measure the total gaseous Hg (TGM) in stack applications such as power plants and waste incinerators.

The optic and electronic system includes a double beam photometer with light modulation, synchronic detection of signal and automatic gain control. Exponential light absorption law is translated into linear results by the microprocessor system. A low pressure EDL Hg lamp is used as a light source.

Sample is pre-concentrated using a gold trap, which provides detection level in the sub-nanogram range. Only teflon and quartz glass materials are used in the analyser to prevent adsorption of Hg. The gas pumping system provides different flow rates for sampling and analysis. Protective activated carbon scrubbers are installed by the gas outlet.



Technical Specifications (standard)

Dimensions excl. handles (L×W×H)	310×320×135 mm
Weight (approx.)	6 kg
Voltage supply	230 V _{AC} /115 V _{AC} (±5%)
Power consumption	90 W
Detection limit	0.5 ng/m ³ with 1 min. sampling time
Output	0 to 5 V/RS232
Gas flow rate used for sampling	1 l/min.

The detection limit and measurement range are depending on the time for sampling

Sampling time, s	Detection limit, ng/m ³	Range, ng/m ³
15	1	0 to 10 000
60	0.1	0 to 1 000

Options

For CEM applications MercuryMan

For AQM applications Sampling System for HG200 AQM Measurements

For AQM total gaseous Hg (TGM) CX200 Converter (Sampling System for HG200 AQM Measurements also required)

Specifications subject to change without notice

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