EZ6009 Mercury Analyser Hg(II), 1 stream, Modbus RS485

Product #: **EZ6009.99001C02**

AUD Price (Incl. GST): Contact Hach

Trace metal analysis of dissolved Mercury Hg(II) in water by online voltammetry

About the 6000 Series

The EZ6000 Series of Online Trace Metal Analysers are based on the technology of stripping voltammetry, a sensitive analytical technique that can be automated for the determination of trace levels of metals in water. For many metals the EZ6000 Series boasts limits of quantification in the low ppb range, comparing the technique favorably with AAS or ICP analysis.

Single, multiple and total parameter configurations

Several product sublines with a wealth of combinations are available for determination of trace metals, including the standard single parameter and multi-parameter configurations without digestion. Measurement of complexed or adsorbed metals is possible by means of the configurations with built-in digester. Combinations of metals depend on the choice of working electrode and the priority metals for your application.

Advanced features

The EZ6000 Series build upon tried and tested voltammetry technology used in many clean water applications, in an industrial mainframe with the following prime features:

- Excellent selectivity and sensitivity

- Built-in sample digestion unit (hot acid or UV)

- Smart automatic features

- Standard 4 - 20 mA signal output with alarm processing

- Communication ports supporting connectivity to Modbus

- Higher measuring ranges: internal sample dilution

- Multiple stream analysis

There are many additional options available. Please contact Hach for more details.

Specifications

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts

Ambient Temperature:	10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)
Automatic cleaning:	Yes
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified
Cooling water:	Not required
Cycle Time:	10 minutes
Demineralised water:	For rinsing
Digital outputs:	Modbus RS485
Drain:	Atmospheric pressure, vented, min. Ø 64 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm^2
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Iron (II),(III) in mg/L levels, antimony (III) in µg/L levels, organic matter may interfere. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 1 µg/L
Material:	Hinged part: Thermoform ABS, door: plexiglass
	Wall section: Galvanised steel, powder coated
Measurement method:	Stripping voltammetry using gold electrode
Number of sample streams:	1 stream
	Optional:
	1 to 6 streams
Output:	Modbus RS485
	Optional:
	Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs
	RS232, Modbus TCP/IP
Parameter:	Mercury, dissolved Hg(II)
Power:	100 - 240 VAC, 50/60 Hz
	Max. power consumption: 120 VA
Precision:	Better than 5% full scale range for standard test solutions
Protection Class:	Analyser cabinet: IP55 / Panel PC: IP65
Range:	1 - 20 µg/L Hg(II)
Reagent Requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel
Sample Quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample Temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	1 year
Weight:	25 kg