



## EZ6200 Total Arsenic Analyser

**Product #:** EZ6200.XXXXXXXXXX  
**ZAR Price:** Contact Hach

### Trace metal analysis of Total Arsenic 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.

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### 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)
Analogue Outputs:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Automatic cleaning:	Yes
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / ETL certified
Cooling water:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Cycle Time:	20 minutes (dilution + 5 min.)
Demineralised water:	For rinsing / dilution
Digital outputs:	Optional: Modbus (TCP/IP, RS485)
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 32 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Iodide, organic matter, copper Cu(II) > 30 µg/L, iron Fe(III) >20 mg/L, various metals in mg/L levels may interfere. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 1 µg/L
Material:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Measurement method:	Stripping voltammetry using gold electrode
Measuring range:	1 - 20 µg/L As
	Optional:
	5 - 80 µg/L (with internal dilution)
	10 - 200 µg/L (with internal dilution)
	20 - 400 µg/L (with internal dilution)
Model:	EZ6200
Number of sample streams:	1, 2, or 4
Parameter:	Arsenic, total
Power:	230 VAC, 50/60 Hz
	120 VAC, 50/60 Hz
	Max. power consumption: 440 VA
Precision:	Better than 5% full scale range for standard test solutions
Protection Class:	Analyser cabinet: IP44 / Panel PC: IP65
Range:	1 - 20 µg/L As (optional ranges with internal dilution)
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:	12 months
Weight:	25 kg

What's included?:	EZ6200 Arsenic Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x Reference Electrode (Ag/AgCl), 1 x Working Electrode - Gold, 1 x Counter Electrode, 2 x empty 2.5L Reagent Containers with Fittings (Buffer & HNO <sub>3</sub> Solution) and 1 x empty 5L Reagent Container with Fittings (H <sub>2</sub> SO <sub>4</sub> Solution) and 2 x empty 1L Reagent Containers with Fittings (Reference Blank & Reference As Solution)
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