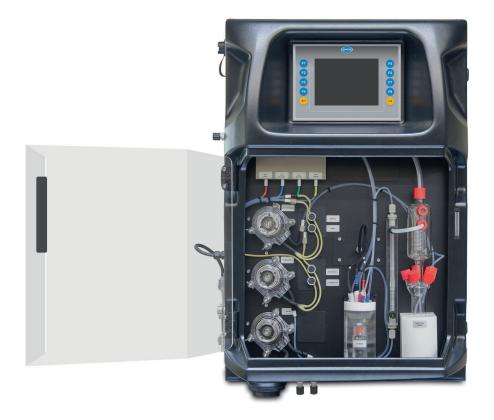
EZ6000 Series Arsenic Trace Metal Analyzers

Applications

- Drinking Water
- Surface Water
- Industrial Effluent



Trace metal analysis of dissolved and total Arsenic in water by online voltammetry

About the EZ6000 Series

The EZ6000 Series of online Trace Metal Analyzers 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.

EZ6000 Analyzers can be equipped with an add-on sample digestion unit that has been designed specifically for samples with higher organic contents, suspended particles and changing composition. The optional combination with an external filtration system allows for detection and measurement of trace metals in a wide range of water matrices. The EZ6000 Series Analyzers combine tried and tested voltammetry technology in an industrial mainframe with prime features:

- Excellent selectivity and sensitivity
- Standard measuring ranges with optional internal dilution
- Smart automatic features
- Control and communication via industrial panel PC
- Analog and digital output options
- Multiple stream analysis

Options for the determination of Arsenic include: Arsenic, dissolved As(III), Arsenic, total dissolved As(III+V) and Arsenic, total after digestion. A combined analysis with Mercury is possible.

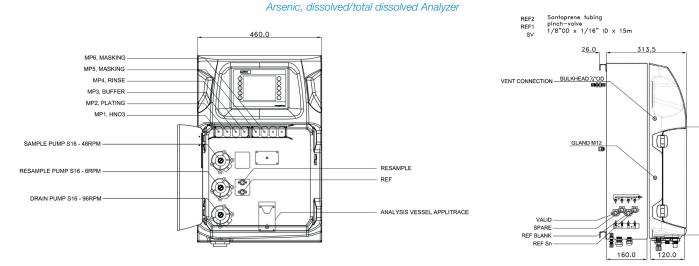


Technical Data*

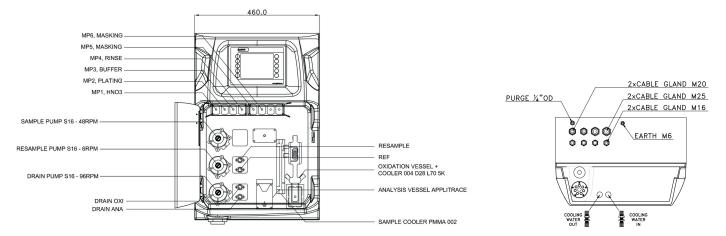
Model	EZ6000/6001/6100/6101	EZ6200/6300/6309
Parameter	Arsenic, dissolved As(III) Arsenic, total dissolved As(III+V)	Arsenic, total after hot acid digestion Arsenic, total dissolved As(III+V) Arsenic, dissolved As(III)
Measurement Method	Stripping voltammetry using gold electrode	Stripping voltammetry using gold electrode
Range	1 - 20 µg/L As	1 - 20 μg/L As Optional (only EZ6200): 5 - 80 μg/L (with internal dilution) 10 - 200 μg/L (with internal dilution) 20 - 400 μg/L (with internal dilution)
Precision	Better than 5% full scale range for standard test solutions	Better than 5% full scale range for standard test solutions
Lower Limit of Detection (LOD)	≤ 1 µg/L	≤ 1 µg/L
Cycle Time	10 minutes (dilution + 5 min)	20 minutes (dilution + 5 min)
Interferences	lodide, 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.	lodide, 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.
Cooling Water	Not required	Flow rate approx. 5 L/h; temperature max. 30 °C (86 °F); pressure max. 0.5 bar
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	230 VAC, 50/60 Hz, max. power consumption 440 VA 120 VAC version also available (see configurator)
Automatic cleaning	Y	es
Calibration	Automatic, 2-point; frequ	ency freely programmable
Validation	Automatic; frequency	/ freely programmable
Ambient Temperature	10 - 30 °C ±4 °C deviation (50 - 86 °F ±7.2 °F devi	ation) at 5 - 95% relative humidity (non-condensing)
Reagent Requirements	Keep between 10	- 30 °C (50 - 86 °F)
Sample Pressure	By external o	verflow vessel
Sample Flow Rate	100 - 30	0 mL/min
Sample Temperature	10 - 30 °C	(50 - 86 °F)
Sample Quality		n, < 0.1 g/L; Turbidity < 50 NTU
Instrument Air	Dry and oil free according to ISA-S7.0.0	1-1996 quality standard for instrument air
Demineralized Water	For rinsing	g / dilution
Drain	Atmospheric pressure,	vented, min. Ø 64 mm
Earth Connection	Dry and clean earth pole with low impedance	e (< 1 Ohm) using an earth cable of > 2.5 mm ²
Analog Outputs	Active 4 - 20 mA max. 500 Ohm	load, standard 1, max. 8 (option)
Digital Outputs	Modbus, RS	S232, RS485
Alarm	1 x malfunctioning, 4 x user-configurable, i	max. 24 VDC/0.5 A, potential free contacts
Protection Class	Analyzer cabinet: IP	255 / Panel PC: IP65
Material		m ABS, door: plexiglass ad steel, powder coated
Dimensions (H x W x D)	690 mm x 465	mm x 330 mm
Weight	25 kg ((55 lbs.)
Certifications		t / UL certified

*Subject to change without notice.

Dimensions



Total Arsenic Analyzer with digestion unit



Hach Service

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

420.0

Order Information - Part Number Configurator

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Order Information - Part Number Configurator

Messurement range settings / Dilution options 0 1 </th <th>Arsenic, total, standard range 1-20 μg/L Arsenic, total & Mercury, total, standard range 1-20 μg/L</th> <th>EZ6200.99 EZ6300.99</th> <th>x</th> <th>x</th> <th>x</th> <th>x</th> <th>x</th>	Arsenic, total, standard range 1-20 μg/L Arsenic, total & Mercury, total, standard range 1-20 μg/L	EZ6200.99 EZ6300.99	x	x	x	x	x
Standard range 0 Internal micropump dilution (factor 4) (only EZ5200) 1 Internal micropump dilution (factor 20) (only EZ5200) 4 Power supply 230 VAC, 50/80 Hz A 120 VAC, 50/80 Hz A 120 VAC, 50/80 Hz B streams 1 13 streams 2 3 streams 2 3 streams 3 14 streams 1 2 streams 3 3 streams 3 3 streams 3 3 streams 5 4 mA 5 5 streams 5 5 streams 6 5 xmA 6 5 xmA 6 5 xmA 6 <	Arsenic, total & Arsenic, total dissolved As(III+V) & Arsenic, dissolved As(III), standard range 1-20 µg/L	EZ6309.99					
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7x mA7Bx mA8RS232AModbus TCP/IPBModbus RS485C1x mA + Modbus RS485F3x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
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RS232AModbus TCP/IPBModbus RS485C1x mA + Modbus RS485F2x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPJ2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
Modbus TCP/IPBModbus RS485C1x mA + Modbus RS485E2x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
Modbus RS485C1x mA + Modbus RS485E2x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
1x mA + Modbus RS485E2x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
2x mA + Modbus RS485F3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
3x mA + Modbus RS485G4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
4x mA + Modbus RS485H1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
1x mA + Modbus TCP/IPI2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
2x mA + Modbus TCP/IPJ3x mA + Modbus TCP/IPK4x mA + Modbus TCP/IPL							
3x mA + Modbus TCP/IP K 4x mA + Modbus TCP/IP L							
4x mA + Modbus TCP/IP L							
No adaption, standard version	4x MA + Modbus TCP/IP					L	
	No adaption, standard version						0

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