

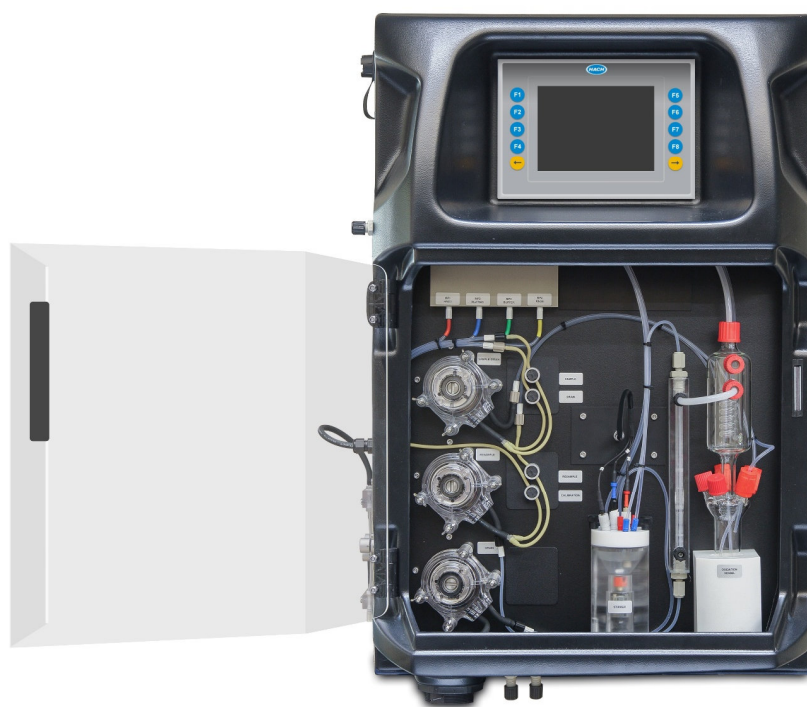
EZ6000 SERIES

On-line Trace Metal Analyzers

Analysis of Arsenic

Applications

- Drinking water
- Surface water
- Industrial effluent



Single and multiple parameter analysis of trace metals in water by on-line voltammetry

About the 6000 Series

The **EZ6000 Series** of On-line 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, comparing the technique favorably with AAS or ICP analysis.

Single, multiple and total parameter configurations

Several product sublimes 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:

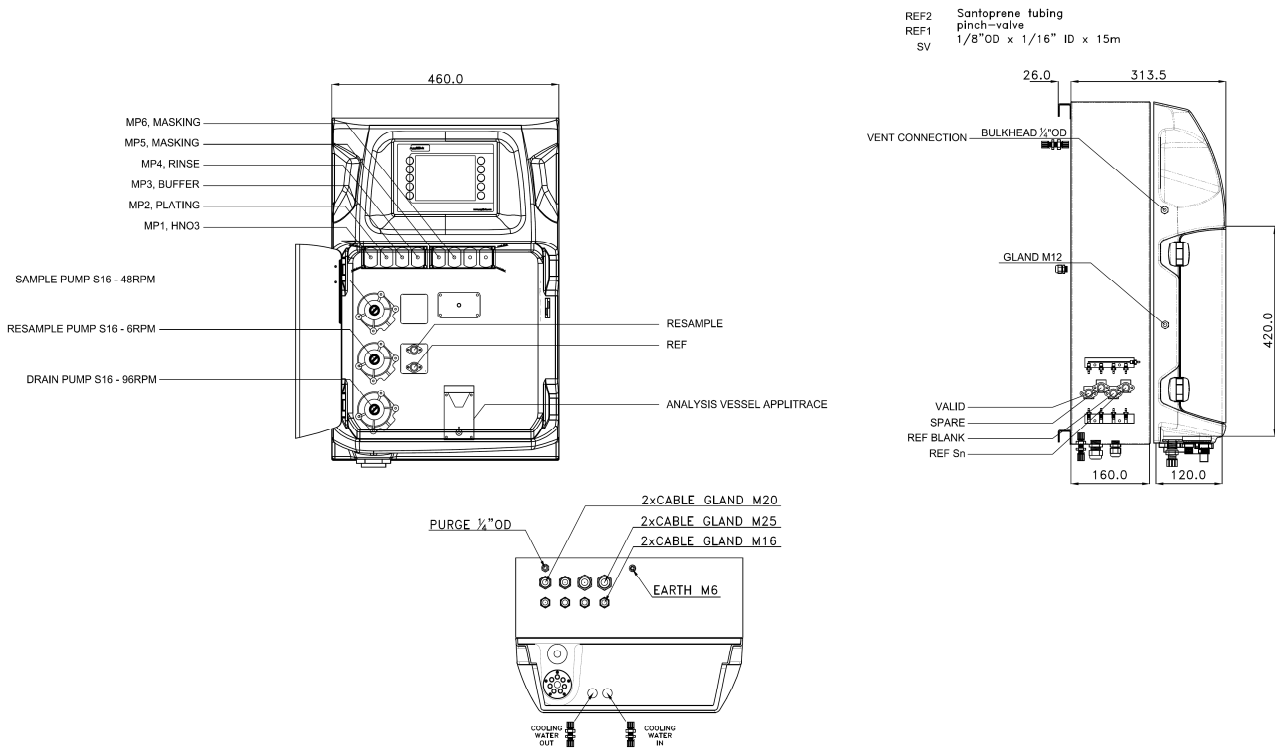
- Excellent selectivity and sensitivity
- Built-in sample digestion unit (hot acid or UV)
- Smart automatic features
- Standard 4 - 20 mA signal output with alarm processing
- Communication ports supporting connectivity to Modbus
- Higher measuring ranges: internal sample dilution
- Multiple stream analysis

Technical data*

Analysis method	Stripping voltammetry using gold electrode
Parameter	As(III), As total dissolved (III+V)
Measuring ranges	0 – 20 µg/L As(III)
Cycle time	10 minutes (dilution +5 min.)
Limit of quantification (LOQ)	≤ 1 µg/L
Precision/Repeatability	Better than 5% full scale range for standard test solutions
Cleaning	Automatic; frequency freely programmable
Calibration	Automatic, 2-point; frequency freely programmable
Validation	Automatic; frequency freely programmable
Interferences	Iodide (I ⁻), organic matter, various metals in mg/L levels may interfere. Fats, oil, proteins, surfactants and tar.
Ambient operating conditions	10 °C – 30 °C +/- 4 °C deviation (50 °F – 86 °F +/- 7.2 °F deviation) at 5 - 95% relative humidity non-condensing
Reagent temperature	Keep between 10 °C - 30 °C (50 °F - 86°F)
Sample pressure	By external overflow vessel
Sample flow rate	100 - 300 ml per minute
Other sample requirements	Temperature: 10 °C – 30 °C (50 °F – 86 °F); Maximum size 100 µm, < 0.1 g/l; Turbidity < 50 NTU
Power	220 - 240 VAC, 2 A, 50/60 Hz Max. power consumption: 150 VA; Other voltages available on request
Instrument air	Dry and oil free according to ISA-57.0.01-1996 quality standard for instrument air
Demineralized water	For rinsing and/or dilution
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
Analogue outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Digital outputs (option)	MODBUS, RS232, RS485
Alarms	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Protection class	Analyzer cabinet: IP55 / Panel PC: IP65
Materials, hinged part	Thermoform ABS, Door: plexiglass
Materials, wall section	Galvanized steel, powder coated
Dimensions (H X W X D)	69 cm (27.2") x 46.5 cm (18.3") x 33 cm (13")
Total weight	25 kg (55 lbs.)
Certification	CE compliant / UL certified
Warranty	2 years

* Subject to change without further notice.

Dimensions - Drawings



Service packages

Start-Up/Commissioning:

Our service technicians visit your site and setup instrumentation, provide basic end-user training on operations and maintenance, and validate settings and performance to get you started.

Service Agreement:

Hach provides on-site and in-factory repair, preventive maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

Contact us to learn about what Hach Service option is right for you.

Order information

EZ6000.99XXXXX	EZ6000 Series, As(III) 0 – 20 µg/L, without digestion
EZ6001.99XXXXX	EZ6000 Series, As total dissolved (III+V) 0 – 20 µg/L, without digestion
EZ6100.99XXXXX	EZ6000 Series, As(III) 0 – 20 µg/L, Hg(II) 0 – 20 µg/L, without digestion
EZ6101.99XXXXX	EZ6000 Series, As total dissolved (III+V) 0 – 20 µg/L, Hg(II) 0 – 20 µg/L, without digestion

All options (see Configurator)

E	Z	6	X	X	X	.	9	9	X	X	X	X	X	2
Measurement range settings / Dilution options														
standard range														
0														
internal MP dilution (factor 4)														
1														
customized														
Z														
power supply														
Standard 110 - 220 VAC ; 50/60 Hz														
0														
Customized														
Z														
number of sample streams														
1 stream														
1														
2 streams														
2														
3 streams														
3														
4 streams														
4														
5 streams														
5														
6 streams														
6														
Outputs														
1x mA														
1														
2x mA														
2														
3x mA														
3														
4x mA														
4														
5x mA														
5														
6x mA														
6														
7x mA														
7														
8x mA														
8														
RS232														
A														
Modbus TCP/IP														
B														
Modbus RS485														
C														
AnaCommDa														
D														
1x mA + Modbus RS485														
E														
2x mA + Modbus RS485														
F														
3x mA + Modbus RS485														
G														
4x mA + Modbus RS485														
H														
1x mA + Modbus TCP/IP														
I														
2x mA + Modbus TCP/IP														
J														
3x mA + Modbus TCP/IP														
K														
4x mA + Modbus TCP/IP														
L														
Customized / combined														
Z														
Specials														
no adaption, standard version														
0														
customer specific adaptations required, to specify														
S														