

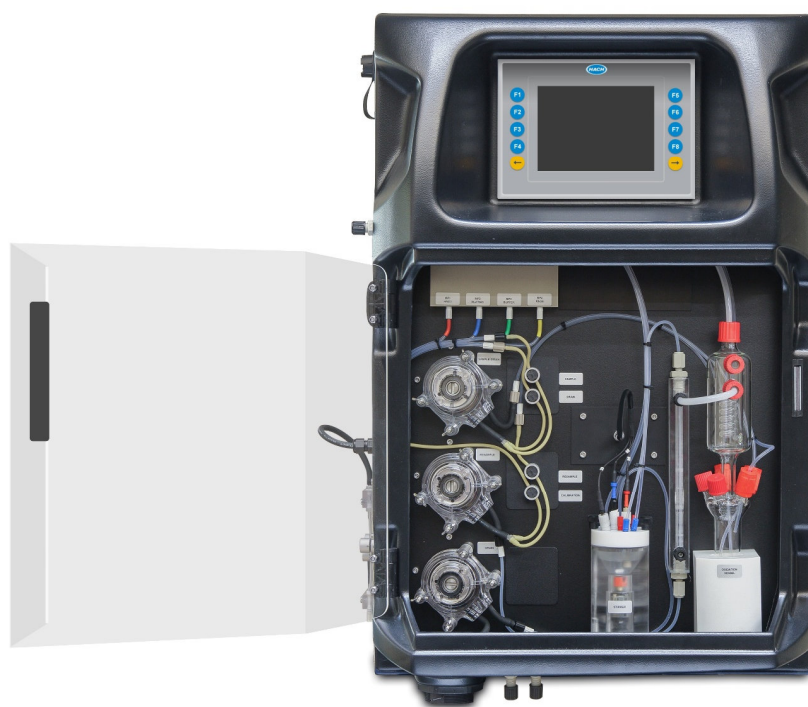
# EZ6000 SERIES

## On-line Trace Metal Analyzers

### Analysis of Copper

#### 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 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:

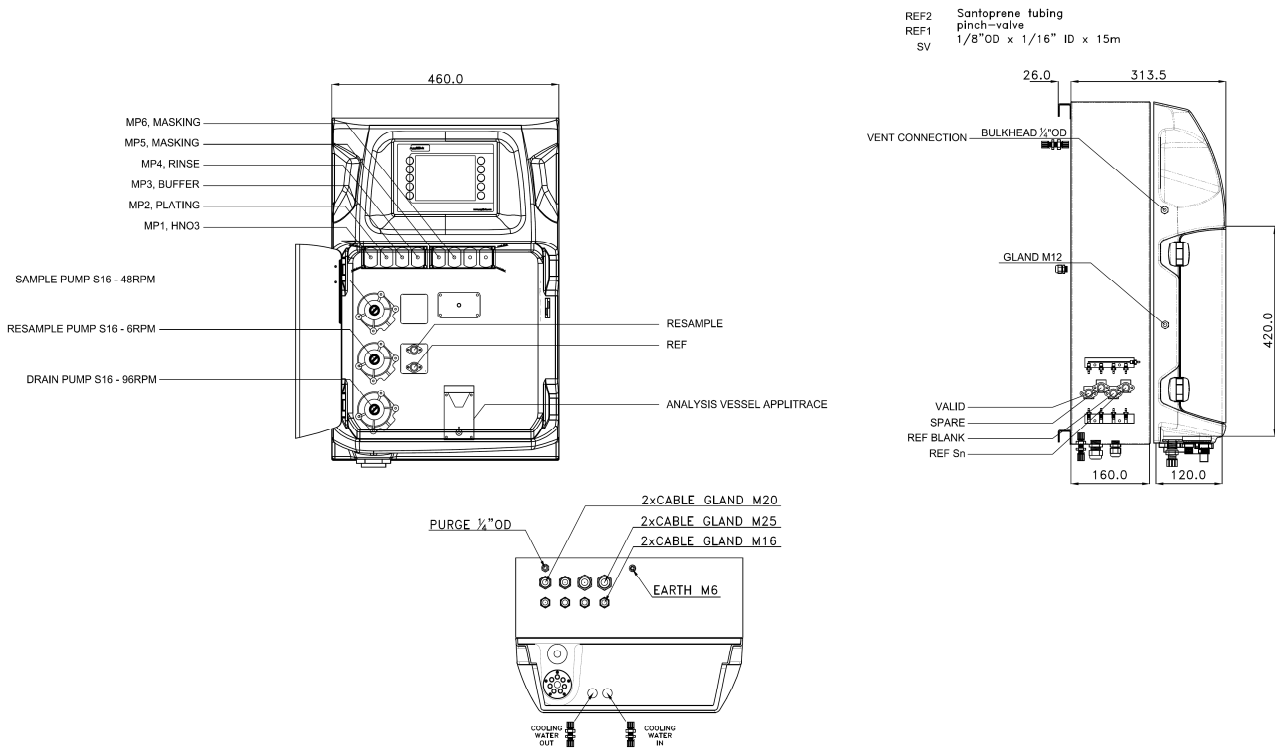
- Excellent selectivity and sensitivity
- Built-in sample digestion unit (hot acid or UV)
- Smart automatic features
- Standard 4 - 20 mA signal output with alarm processing
- Communication ports supporting connectivity to Modbus
- Higher measuring ranges: internal sample dilution
- Multiple stream analysis

## Technical data\*

<b>Analysis method</b>	Stripping voltammetry using carbon electrode
<b>Parameter</b>	Cu(II)
<b>Measuring ranges</b>	0 – 100 µg/L Cu(II)
<b>Cycle time</b>	10 minutes (dilution +5 min.)
<b>Limit of quantification (LOQ)</b>	≤ 1 µg/L
<b>Precision/Repeatability</b>	Better than 5% full scale range for standard test solutions
<b>Cleaning</b>	Automatic; frequency freely programmable
<b>Calibration</b>	Automatic, 2-point; frequency freely programmable
<b>Validation</b>	Automatic; frequency freely programmable
<b>Interferences</b>	Antimony (III), bismuth (III), organic matter may interfere. Fats, oil, proteins, surfactants and tar.
<b>Ambient operating conditions</b>	10 °C – 30 °C +/- 4 °C deviation (50 °F – 86 °F +/- 7.2 °F deviation) at 5 - 95% relative humidity non-condensing
<b>Reagent temperature</b>	Keep between 10 °C - 30 °C (50 °F - 86°F)
<b>Sample pressure</b>	By external overflow vessel
<b>Sample flow rate</b>	100 - 300 ml per minute
<b>Other sample requirements</b>	Temperature: 10 °C – 30 °C (50 °F – 86 °F); Maximum size 100 µm, < 0.1 g/l; Turbidity < 50 NTU
<b>Power</b>	220 - 240 VAC, 2 A, 50/60 Hz Max. power consumption: 150 VA; Other voltages available on request
<b>Instrument air</b>	Dry and oil free according to ISA-57.0.01-1996 quality standard for instrument air
<b>Demineralized water</b>	For rinsing and/or dilution
<b>Drain</b>	Atmospheric pressure, vented, min. Ø 64 mm
<b>Earth connection</b>	Dry and clean earth pole with low impedance (< 1 ohm) using an earth cable of > 2.5 mm <sup>2</sup>
<b>Analogue outputs</b>	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
<b>Digital outputs (option)</b>	MODBUS, RS232, RS485
<b>Alarms</b>	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
<b>Protection class</b>	Analyzer cabinet: IP55 / Panel PC: IP65
<b>Materials, hinged part</b>	Thermoform ABS, Door: plexiglass
<b>Materials, wall section</b>	Galvanized steel, powder coated
<b>Dimensions (H X W X D)</b>	69 cm (27.2") x 46.5 cm (18.3") x 33 cm (13")
<b>Total weight</b>	25 kg (55 lbs.)
<b>Certification</b>	CE compliant / UL certified
<b>Warranty</b>	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

<b>EZ6004.99XXXXX</b>	EZ6000 Series, Cu(II) 0 – 100 µg/L, without digestion
<b>EZ6103.99XXXXX</b>	EZ6000 Series, Cu(II) 0 – 100 µg/L, Cd(II) 0 – 100 µg/L, without digestion
<b>EZ6105.99XXXXX</b>	EZ6000 Series, Cu(II) 0 – 100 µg/L, Pb(II) 0 – 100 µg/L, without digestion
<b>EZ6108.99XXXXX</b>	EZ6000 Series, Cu(II) 0 – 100 µg/L, Cd(II) 0 – 100 µg/L, Pb(II) 0 – 100 µg/L, without digestion

### All options (see Configurator)

<b>E</b>	<b>Z</b>	<b>6</b>	<b>X</b>	<b>X</b>	<b>X</b>	.	<b>9</b>	<b>9</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>2</b>
<b>Measurement range settings / Dilution options</b>														
standard range														
0														
internal MP dilution (factor 4)														
1														
customized														
Z														
<b>power supply</b>														
Standard 110 - 220 VAC ; 50/60 Hz														
0														
Customized														
Z														
<b>number of sample streams</b>														
1 stream														
1														
2 streams														
2														
3 streams														
3														
4 streams														
4														
5 streams														
5														
6 streams														
6														
<b>Outputs</b>														
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														
<b>Specials</b>														
no adaption, standard version														
0														
customer specific adaptations required, to specify														
S														