

# EZ3000 Series Sulphide Analysers

## Applications

- Drinking water
- Power and steam generation
- Surface water



## Online ion-selective Sulphide measurements in industrial and environmental applications

### ISE technology for optimal analytical performance

With limited maintenance requirements and reduced reagent consumption, the EZ3000 Series are the ideal choice for a wide range of water monitoring applications where ion-selective electrodes are the preferred analytical technique. Outstanding precision and stability is guaranteed by the temperature-controlled measurement.

### Direct, discontinuous ISE method

The EZ3000 Series uses discontinuous ISE analysis which enhances control over conversion of ion activity to electric potential. It also eliminates risk of cross-contamination between cycles and reduces overall reagents consumption.

The EZ3000 Series combine unique technology with a set of analysis, control and communication features in an industrial analyser mainframe with designed for the highest performance:

- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

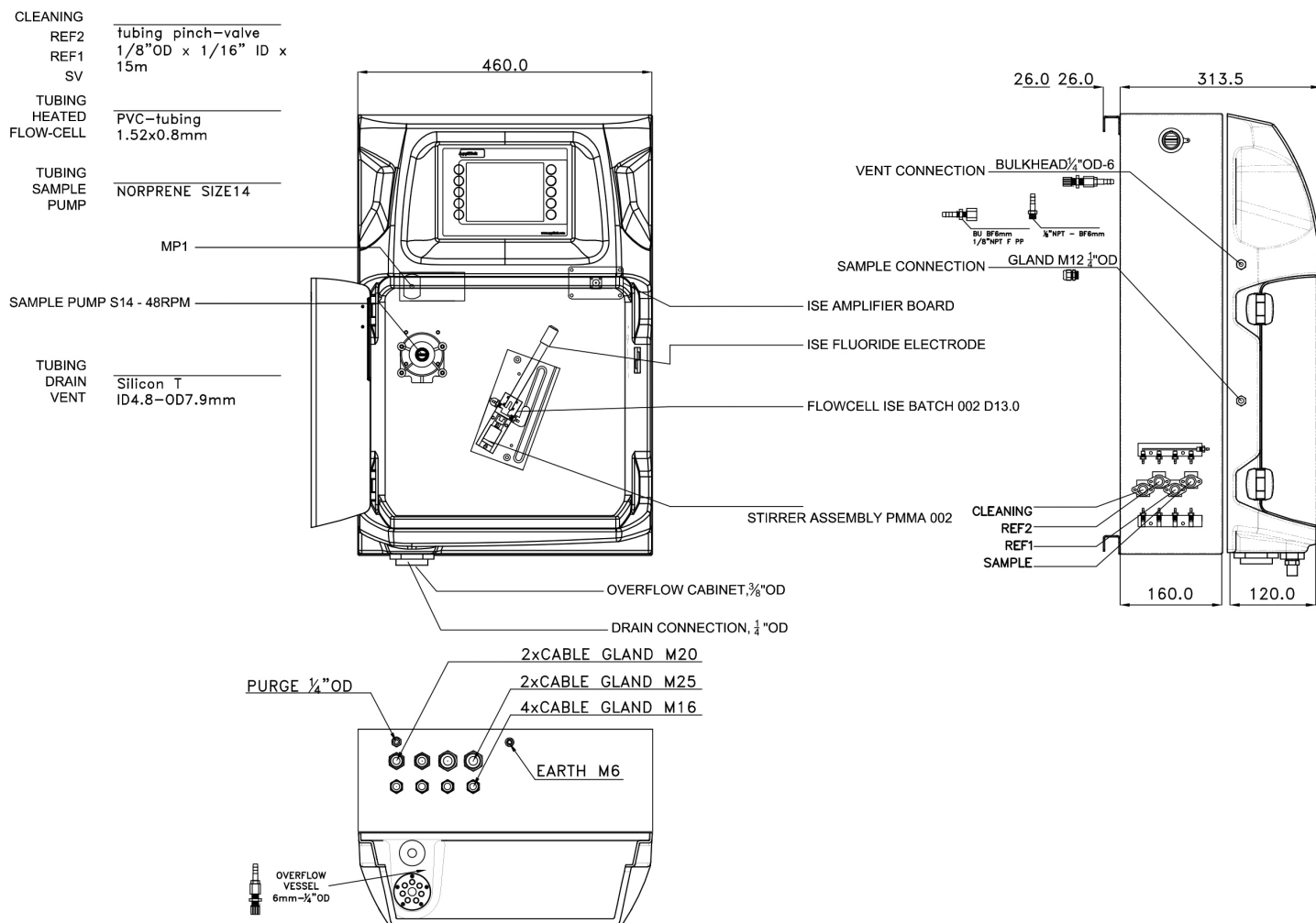
With the EZ3017 (1-10 mg/L) and the EZ3018 (10-100 mg/L) there is a selection of measuring ranges to match your application needs.

## Technical Data\*

<b>Parameter</b>	Sulphide
<b>Measurement method</b>	Discontinuous, direct measurement by combined ion-selective electrode, conform with standard method ASTM D4658-15
<b>Measuring range</b>	1 - 10 mg/L S <sup>2-</sup> 10 - 100 mg/L S <sup>2-</sup>
<b>Precision</b>	Better than 2% full scale range for standard test solutions
<b>Detection limit</b>	≤ 1 mg/L
<b>Interferences</b>	Silver and mercury have very high interference and can only be tolerated in very low concentrations relative to the sulphide - ideally they should be absent. Fats, oil, proteins, surfactants and tar.
<b>Cycle time</b>	5 minutes
<b>Automatic cleaning</b>	Yes
<b>Calibration</b>	Automatic, 2-point; frequency freely programmable
<b>Validation</b>	Automatic; frequency freely programmable
<b>Ambient temperature</b>	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
<b>Reagent requirements</b>	Keep between 10 - 30 °C
<b>Sample pressure</b>	By external overflow vessel
<b>Flow rate</b>	100 - 300 mL/min
<b>Sample temperature</b>	10 - 30 °C
<b>Sample quality</b>	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
<b>Power</b>	110 - 240 VAC, 4 A, 50/60 Hz Max. power consumption: 150 VA
<b>Instrument air</b>	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
<b>Demineralised water</b>	For rinsing
<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</b>	Optional: RS232, Modbus (TCP/IP, RS485)
<b>Alarm</b>	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
<b>Protection class</b>	Analyser cabinet: IP55 / Panel PC: IP65
<b>Material</b>	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated
<b>Dimensions (H x W x D)</b>	690 mm x 465 mm x 330 mm
<b>Weight</b>	25 kg
<b>Certifications</b>	CE compliant / UL certified

\*Subject to change without notice.

## Dimensions



## Be confident with Hach Service

**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.

## Order Information - Part Number Configurator

Standard range, 1-10 mg/L S <sup>2-</sup>	EZ3017.99	X	X	X	X	X	2
Standard range, 10-100 mg/L S <sup>2-</sup>	EZ3018.99						
<b>Measurement range settings / Dilution options</b>							
25% of standard range		B					
50% of standard range		C					
Standard range		0					
Customised		Z					
<b>Power supply</b>							
Standard 110 - 240 VAC; 50/60 Hz			0				
Customised			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	
7 streams						7	
8 streams						8	
<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
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
Customised / combined							Z
<b>Specials</b>							
No adaption, standard version							0
Customer specific adaptations required, to specify							S