EZ3000 Series
Sodium Analyzers

Applications

- Drinking Water
- Surface Water

Online ion-selective Sodium 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 Sodium Analyzers combine unique technology with a set of analysis, control and communication features in an industrial analyzer mainframe with designed for the highest performance:

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

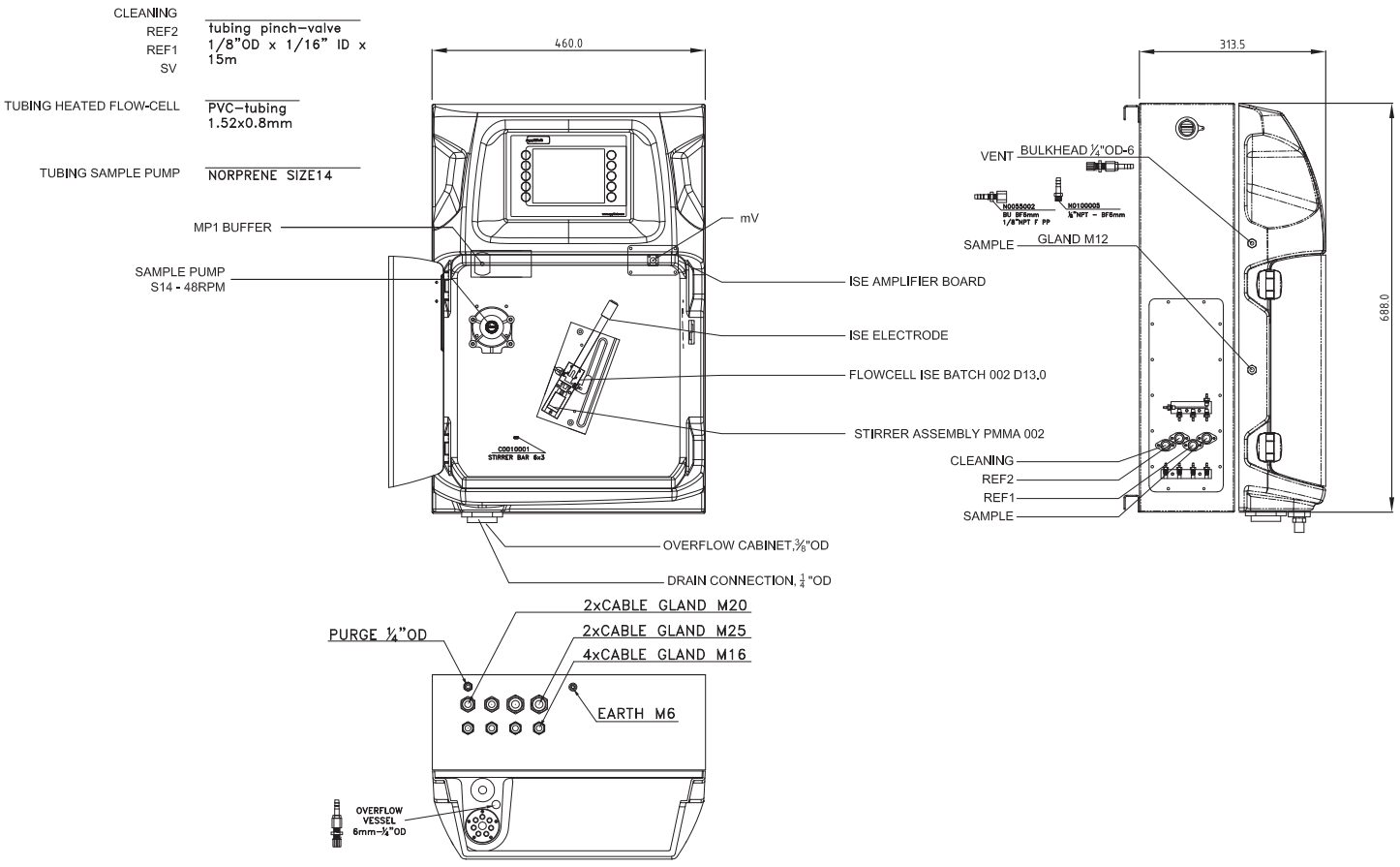
HACH®
Be Right™

Technical Data*

Model	EZ3015	EZ3016
Measurement Method	Discontinuous, direct measurement by combined ion-selective electrode	Discontinuous, direct measurement by combined ion-selective electrode
Range	10 - 100 mg/L Na^+ Optional: 2.5 - 25 mg/L 5 - 50 mg/L	100 - 1000 mg/L Na^+ Optional: 25 - 250 mg/L 50 - 500 mg/L
Precision	Better than 3% full scale range for standard test solutions	Better than 3% full scale range for standard test solutions
Lower Limit of Detection (LOD)	≤ 1 mg/L	≤ 10 mg/L
Interferences	Silver ions (Ag^+) must be absent. The sodium electrode is sensitive to the following ions. The ratio of these ions to sodium (X^+/Na^+) should thus not be larger than the value in brackets: H^+ (< 0.001), Li^+ (<1), K^+ (< 5), NH_4^+ (< 50), Mg^{2+} (< 2000). Fats, oil, proteins, surfactants and tar.	Silver ions (Ag^+) must be absent. The sodium electrode is sensitive to the following ions. The ratio of these ions to sodium (X^+/Na^+) should thus not be larger than the value in brackets: H^+ (< 0.001), Li^+ (<1), K^+ (< 5), NH_4^+ (< 50), Mg^{2+} (< 2000). Fats, oil, proteins, surfactants and tar.
Cycle Time	5 minutes	5 minutes
Parameter	Sodium	
Automatic cleaning	Yes	
Calibration	Automatic, 2-point; frequency freely programmable	
Validation	Automatic; frequency freely programmable	
Ambient Temperature	10 - 30 °C ± 4 °C deviation (50 - 86 °F ± 7.2 °F deviation) at 5 - 95% relative humidity (non-condensing)	
Reagent Requirements	Keep between 10 - 30 °C (50 - 86 °F)	
Sample Pressure	By external overflow vessel	
Sample Flow Rate	100 - 300 mL/min	
Sample Temperature	10 - 30 °C (50 - 86 °F)	
Sample Quality	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU	
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	
Instrument Air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air	
Demineralized Water	For rinsing	
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	
Analog Outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)	
Digital Outputs	Optional: RS232, Modbus (TCP/IP, RS485)	
Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts	
Protection Class	Analyzer cabinet: IP55 / Panel PC: IP65	
Material	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated	
Dimensions (H x W x D)	690 mm x 465 mm x 330 mm	
Weight	25 kg (55 lbs.)	
Certifications	CE compliant / UL certified	

**Subject to change without notice.*

Dimensions



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.

Order Information - Part Number Configurator

Standard range, 10 - 100 mg/L Na^+ Standard range, 100 - 1000 mg/L Na^+	EZ3015.99 EZ3016.99	X	X	X	X	X	2
Measurement range settings / Dilution options							
25% of standard range		B					
50% of standard range		C					
Standard range		0					
Power supply							
Standard 100 - 240 VAC, 50/60 Hz			0				
Number of sample streams							
1 stream				1			
2 streams				2			
3 streams				3			
4 streams				4			
5 streams				5			
6 streams				6			
7 streams				7			
8 streams				8			
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		
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		
**Combinations of up to 8x mA + Modbus are available.*							
No adaption, standard version						0	

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