

EZ3000 Series Ammonium Analyzers

Applications

- Drinking Water
- Power and steam generation
- Surface Water



Online ion-selective Ammonium measurements in water

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 combines unique ISE technology with a set of analysis, control and communication features in an industrial analyzer mainframe designed for the highest performance:

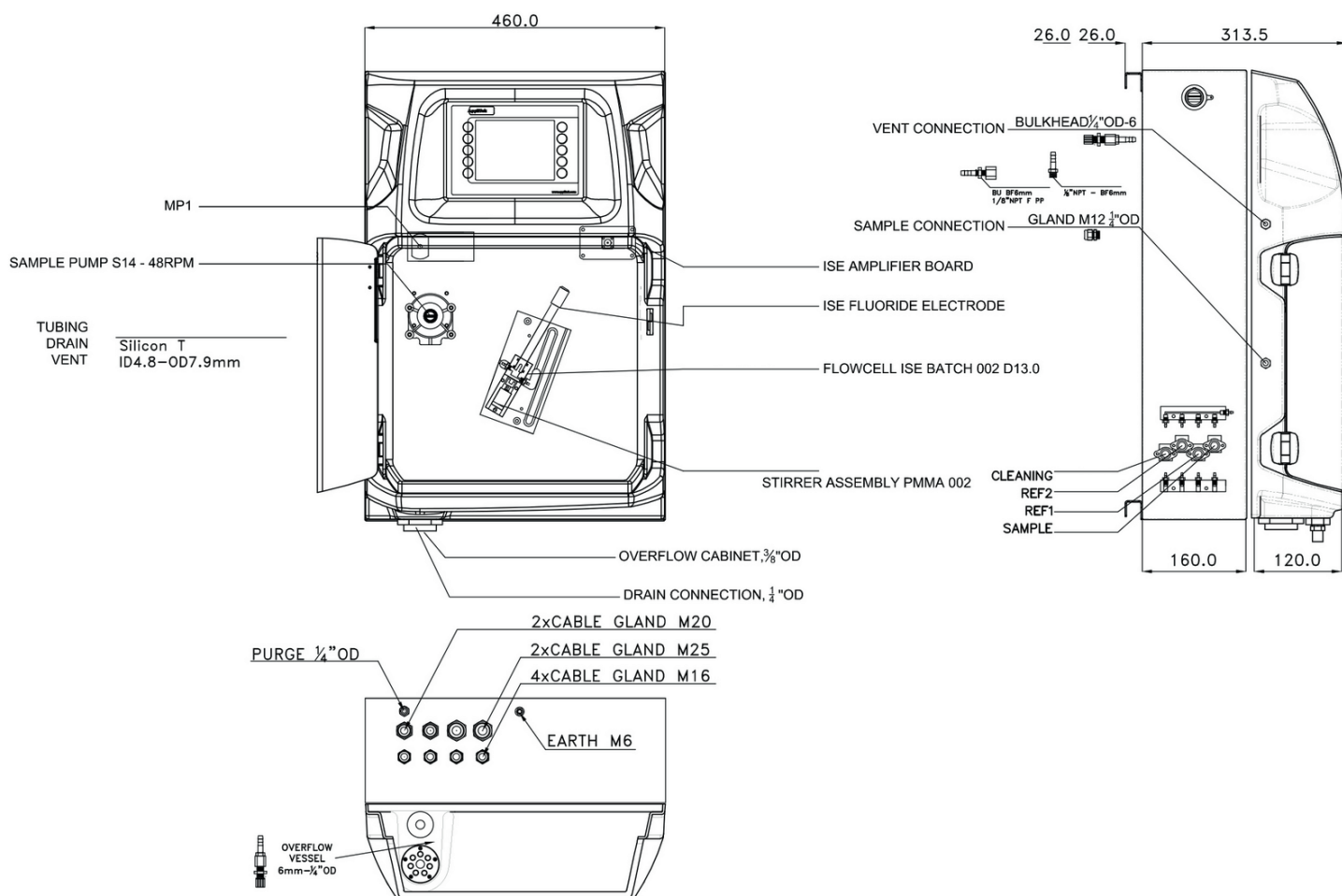
- Smart automatic features
- Control and communication via industrial panel PC
- Analog and digital output options
- Multiple stream analysis (up to 8 streams)

Technical Data*

Model	EZ3000	EZ3001
Parameter	Ammonium	Ammonium
Range	1 - 10 mg/L NH ₄ -N Optional: 0.5 - 5 mg/L NH ₄ -N	10 - 100 mg/L NH ₄ -N Optional: 2.5 - 25 mg/L NH ₄ -N 5 - 50 mg/L NH ₄ -N
Lower Limit of Detection (LOD)	≤ 0.5 mg/L	≤ 2.5 mg/L
Precision	Better than 2% full scale range for standard test solutions	
Measurement Method	Discontinuous, direct measurement by combined ion-selective electrode, conform with standard method APHA 4500-NH ₃ (D)	
Interferences	Volatile amines interfere. Fats, oil, proteins, surfactants and tar.	
Cycle Time	5 minutes	
Automatic cleaning	Yes	
Calibration	Automatic, 2-point; frequency freely programmable	
Validation	Automatic; frequency freely programmable	
Ambient Temperature	10 - 30 °C ±4 °C 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	1x malfunctioning, 4x 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, 1-10 mg/L NH ₄ -N	EZ3000.99	X	X	X	X	X	2
Standard range, 10-100 mg/L NH ₄ -N	EZ3001.99						
Measurement range settings / Dilution options							
25% of standard range (only EZ3001)		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
<i>*Combinations of up to 8x mA + Modbus are available.</i>							
No adaption, standard version							0