EZ3500 Series
Ammonium Analysers

Applications
- Wastewater



Online ion-selective Ammonium measurements with standard addition for industrial applications

ISE technology for complex water matrices

The EZ3500 Series are used for water monitoring applications where ion-selective electrodes are the preferred analytical technique, but specifically for complex water matrices such as industrial effluent. Standard addition is used to minimise matrix interferences that may contribute to the output signal of the electrode.

Discontinuous, automatic standard addition

The EZ3500 Series run discontinuous measurements with careful addition of a known standard in an analysis vessel. Discontinuous ISE analysis enhances control over the potentiometry, eliminates cross-contamination between cycles and reduces overall reagent consumption.

The EZ3500 Series combines unique technology with a set of analysis, control and communication features in an industrial analyser mainframe 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)

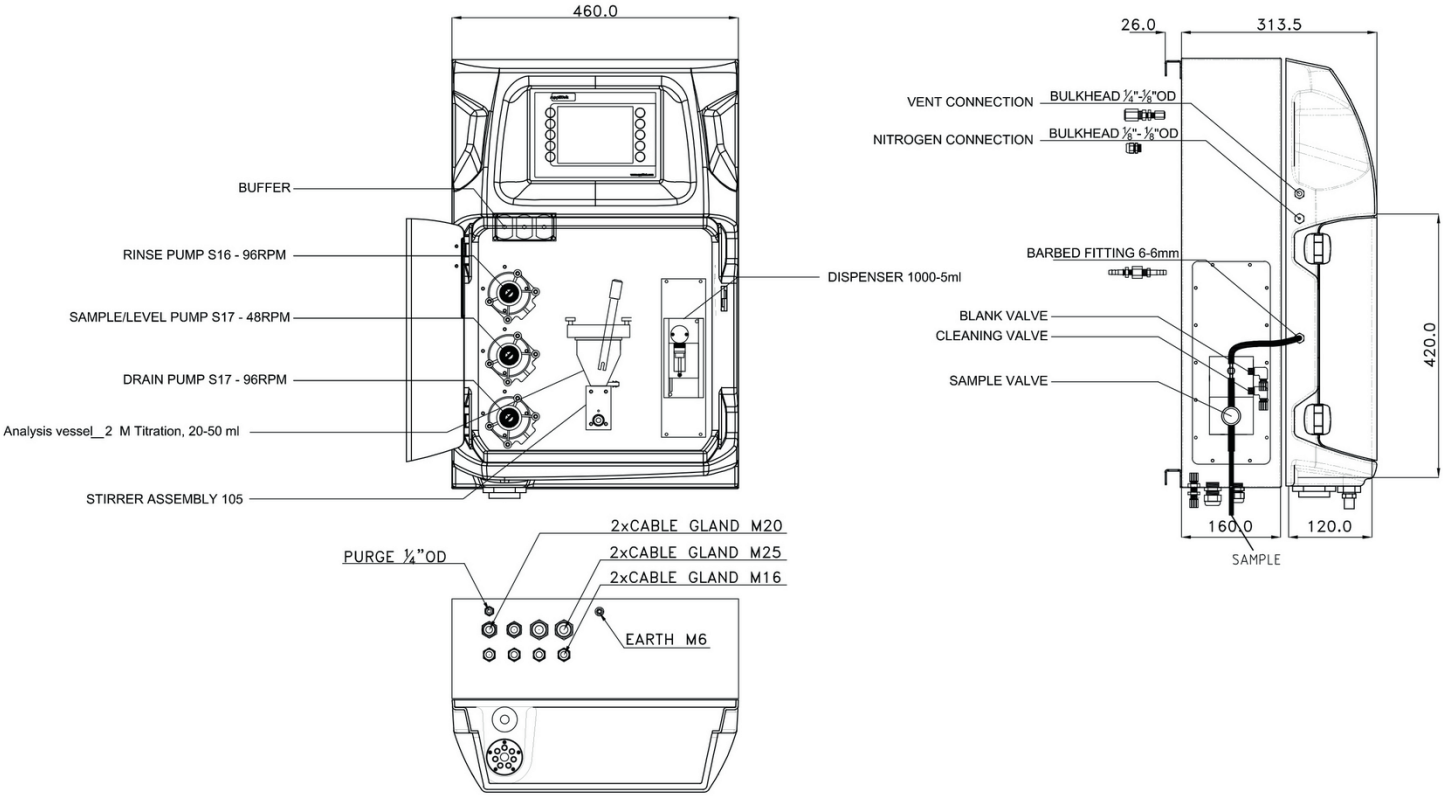
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Technical Data*

Model	EZ3500	EZ3501	EZ3502
Parameter	Ammonium	Ammonium	Ammonium
Measuring range	1 - 10 mg/L NH_4-N Optional: 0.25 - 2.5 mg/L NH_4-N 0.5 - 5 mg/L NH_4-N	5 - 100 mg/L NH_4-N Optional: 1 - 25 mg/L NH_4-N 2.5 - 50 mg/L NH_4-N	50 - 1000 mg/L NH_4-N Optional: 10 - 250 mg/L NH_4-N 25 - 500 mg/L NH_4-N
Detection limit	≤ 0.25 mg/L	≤ 1 mg/L	≤ 10 mg/L
Precision	Better than 2% full scale range for standard test solutions		
Measurement method	Discontinuous measurement by combined ion-selective electrode with standard addition, conform with standard method APHA 4500-NH3 (E)		
Interferences	Volatile amines interfere. Fats, oil, proteins, surfactants and tar.		
Cycle time	8 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		
Sample pressure	By external overflow vessel		
Flow rate	100 - 300 mL/min		
Sample temperature	10 - 30 °C		
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		
Demineralised 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		
Analogue 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	Analyser cabinet: IP55 / Panel PC: IP65		
Material	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated		
Dimensions (H x W x D)	690 mm x 465 mm x 330 mm		
Weight	25 kg		
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 maximise 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 Standard range, 5-100 mg/L NH_4-N Standard range, 50-1,000 mg/L NH_4-N	EZ3500.99 EZ3501.99 EZ3502.99	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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