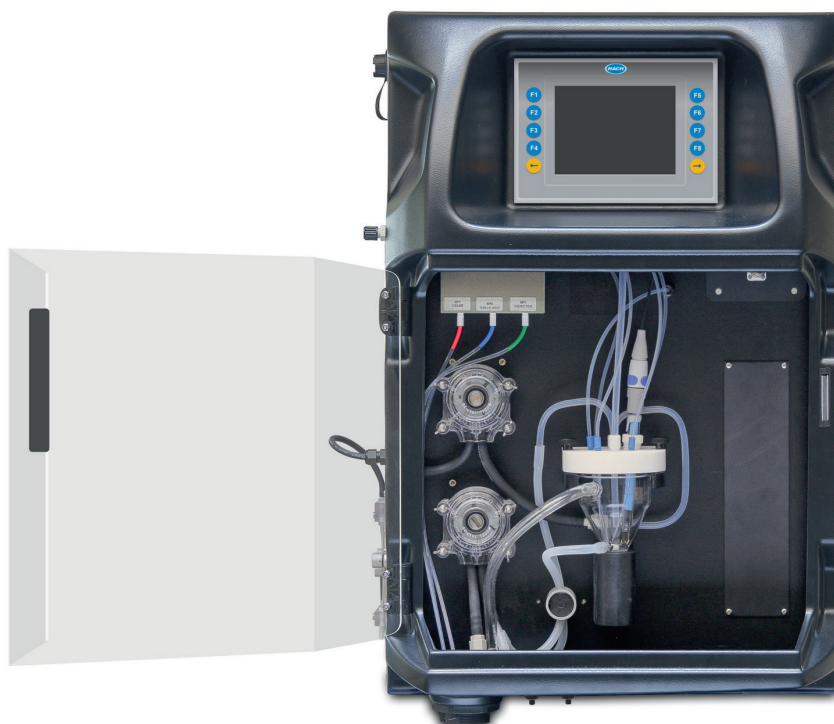


# EZ3500 Series Chloride Analysers

## Applications

- Wastewater
- Process water



## Online ion-selective Chloride 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 the water matrix is complex. Standard addition helps minimise matrix interferences that otherwise might 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 combine 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)

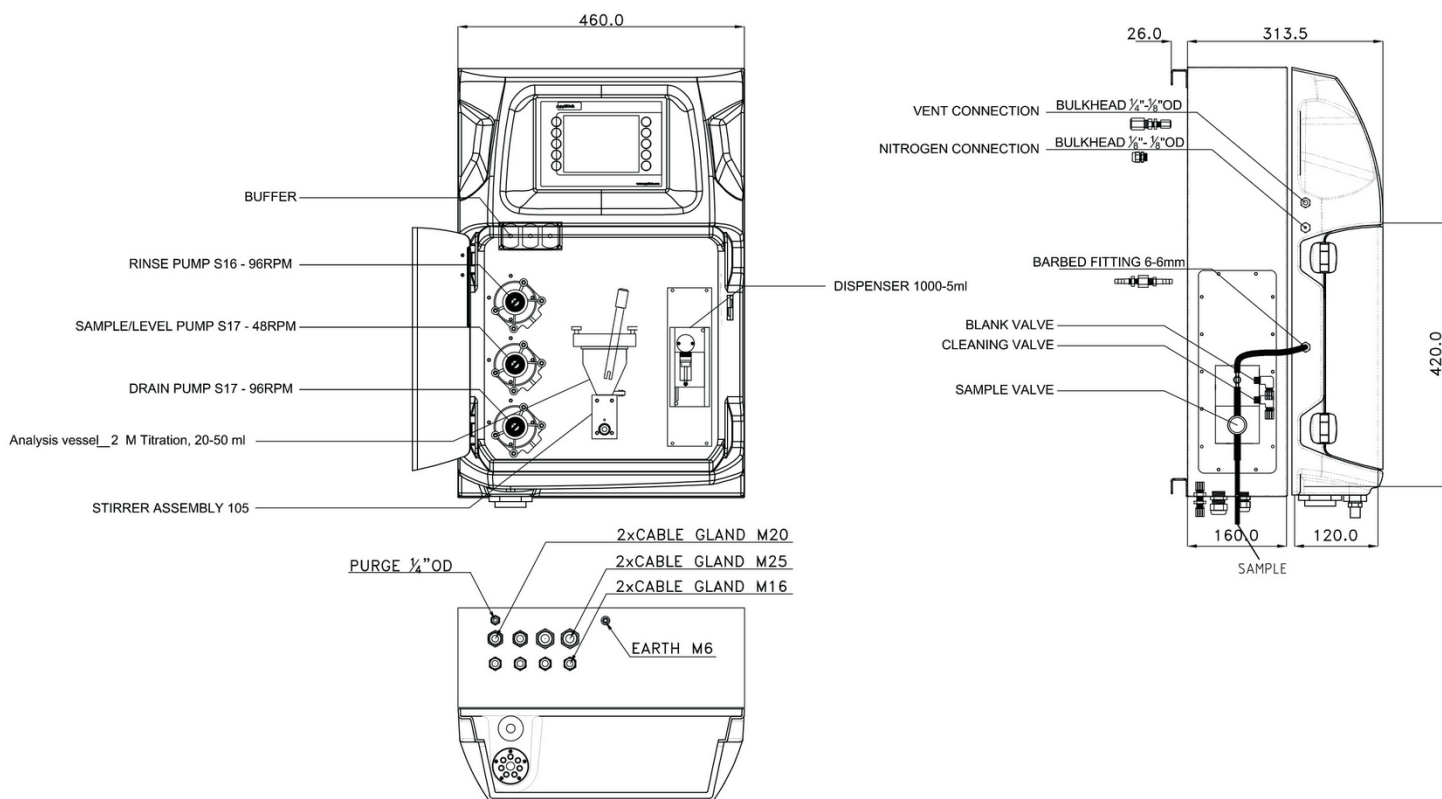
With the EZ3503, the EZ3504 and the EZ3505 a selection of measuring ranges is available to match your application needs.

## Technical Data\*

Model	EZ3503	EZ3504	EZ3505
Parameter	Chloride	Chloride	Chloride
Measuring range	1 - 10 mg/L Cl <sup>-</sup> Optional: 0.25 - 2.5 mg/L Cl <sup>-</sup> 0.5 - 5 mg/L Cl <sup>-</sup>	5 - 100 mg/L Cl <sup>-</sup> Optional: 1 - 25 mg/L Cl <sup>-</sup> 2.5 - 50 mg/L Cl <sup>-</sup>	50 - 1000 mg/L Cl <sup>-</sup> Optional: 10 - 250 mg/L Cl <sup>-</sup> 25 - 500 mg/L Cl <sup>-</sup>
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		
Interferences	Bromide, sulphide, iodide, cyanide ions may interfere. Mercury must be absent. Ammonia and thiosulphate may 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 <sup>2</sup>		
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 Cl <sup>-</sup>	EZ3503.99						
Standard range, 5-100 mg/L Cl <sup>-</sup>	EZ3504.99	X	X	X	X	X	2
Standard range, 50-1,000 mg/L Cl <sup>-</sup>	EZ3505.99						
<b>Measurement range settings / Dilution options</b>							
25% of standard range		B					
50% of standard range		C					
Standard range		0					
<b>Power supply</b>							
Standard 100 - 240 VAC, 50/60 Hz			0				
<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	
No adaption, standard version							0