

EZ3505sc Online ISE Chloride Analyser with Standard Addition

Applications

- Wastewater
- Process/Production Water



Accurate Chloride Measurement in Variable Water Matrices

Accurate chloride measurement in municipal and industrial water is often affected by fouling, drift, and changing sample conditions. The EZ3505sc Chloride Analyser uses discontinuous and standard addition modes to actively manage matrix variability. Automated operation delivers stable, repeatable results while reducing routine maintenance and manual intervention. Operators maintain treatment efficiency, ensure regulatory compliance, and avoid costly process disruptions without constant manual adjustment.

Advanced Standard Addition Technology

Ensure reliable data accuracy with advanced discontinuous and standard addition modes. This feature automatically compensates for interferences, delivering precise results even in complex or changing water conditions. Avoid compliance risks caused by inconsistent or unreliable measurements.

Designed for Low-Maintenance Operation

Frequent manual calibration and sensor cleaning increase maintenance effort and downtime. The EZ3505sc employs discontinuous and automated standard addition modes to compensate for matrix effects, stabilise potentiometric response, reduce reagent consumption, and maximise analyser uptime for reliable chloride monitoring.

Seamless System Integration

Isolated data silos hinder effective plant management. Featuring standard analogue and digital communication protocols, this analyser integrates easily into existing plant networks. Real-time visibility ensures you can make informed decisions quickly based on current process conditions.

Cost-Effective Scalability

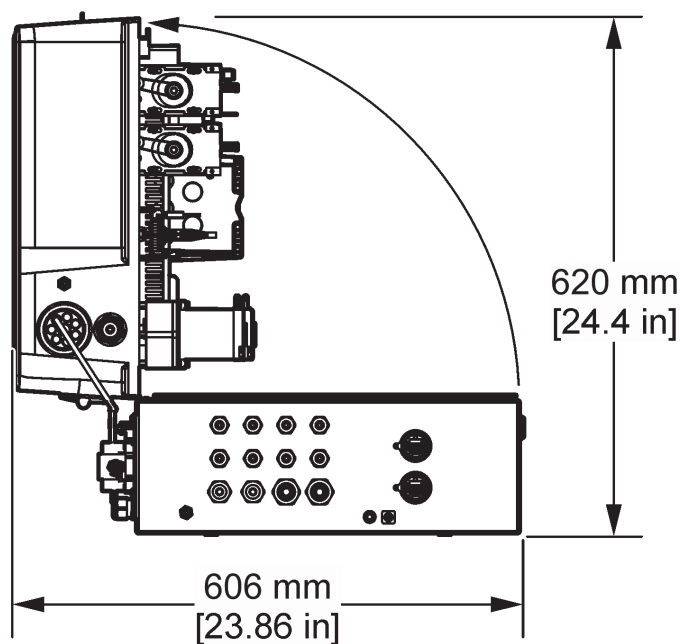
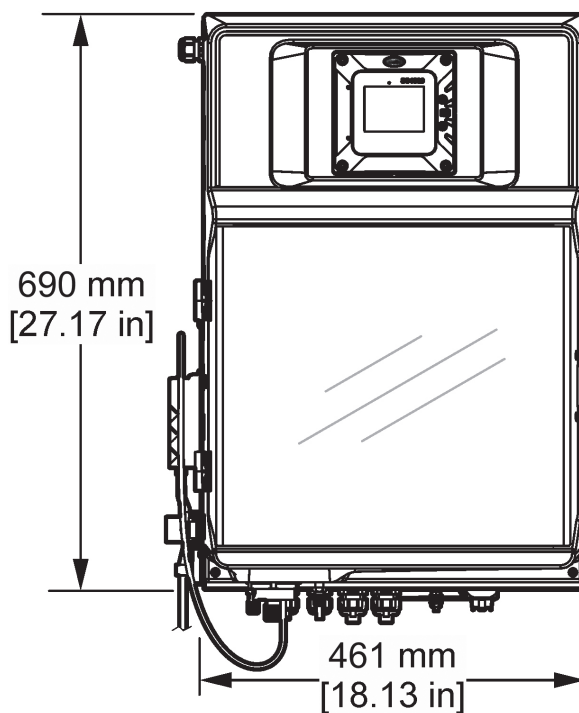
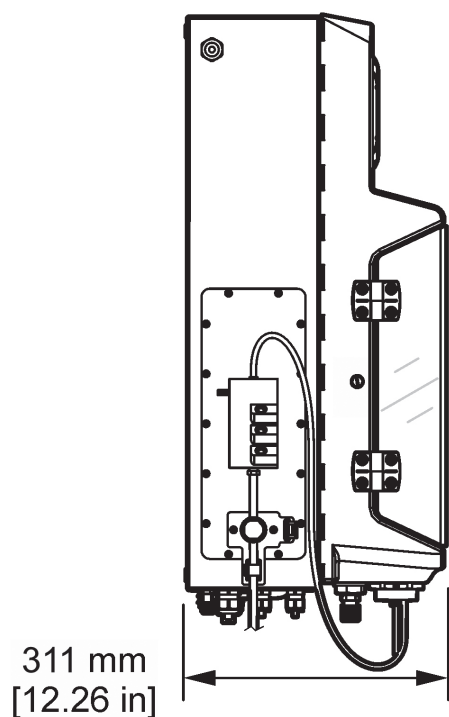
Monitoring multiple sample points traditionally requires significant capital investment. This system supports multi-stream functionality, allowing a single unit to analyse up to 8 sample streams. You gain comprehensive process insight while optimising infrastructure costs and reducing equipment footprint.

Technical Data*

Model	EZ3505sc
Parameter	Chloride
Measuring range	No dilution 2 - 100 mg/L Cl ⁻ 5 - 250 mg/L Cl ⁻ 10 - 500 mg/L Cl ⁻ 20 - 1000 mg/L Cl ⁻ Internal dilution 100 - 5000 mg/L Cl ⁻ 200 - 10000 mg/L Cl ⁻
Detection limit	No dilution 2 - 100 mg/L Cl ⁻ : 2 mg/L 5 - 250 mg/L Cl ⁻ : 5 mg/L 10 - 500 mg/L Cl ⁻ : 10 mg/L 20 - 1000 mg/L Cl ⁻ : 20 mg/L Internal dilution 100 - 5000 mg/L Cl ⁻ : 100 mg/L 200 - 10000 mg/L Cl ⁻ : 200 mg/L
Precision	Better than 2% full scale range for standard test solutions
Measurement method	Discontinuous, direct measurement by combined Ion-Selective Electrode with standard addition
Cycle time	No dilution Default: 5 minutes Continuous: 4 minutes Internal dilution Default: 10 minutes Continuous: 7 minutes
Sample temperature	10 - 30 °C
Sample quality	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Interferences	Bromide [(Br)-], sulphide [(S) ²⁻], iodide [(I)-], cyanide [(CN)-] ions may interfere. Mercury [(Hg)+] must be absent. Ammonia [NH ₃] and thiosulphate [(S ₂ O ₃) ²⁻] may interfere. Fats, oil, proteins, surfactants and tar.
Reagent requirements	Keep between 10 - 30 °C
Demineralised water	Internal dilution option: Rinse water and Dilution water
Automatic cleaning	Yes; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Calibration	Automatic; 2-point; offset or slope; Frequency freely programmable: 6 hours, 12 hours, daily, weekly. Note: manufacturer recommends that a calibration is done when the reagents are replaced
Validation	Automatic; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Ambient temperature	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Sample pressure	By external overflow vessel (open to atmospheric pressure)
Flow rate	100 - 300 mL/min
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. Used to flush the instrument in corrosive environment. Min. 0.2 bar - Max. 0.5 bar
Drain	Atmospheric pressure, vented, min. Ø 32 mm
Earth connection	Earth connection Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
Analogue outputs	Active 0 - 20 mA (or 4 - 20 mA) max. 500 Ohm load, standard 4, optional: 8
Digital outputs	Relays: 5 contacts, not user configurable: Malfunition, maintenance, analysis ready, sample ready, sample ready (EZ9150) Ethernet Connections: Optional: Claros Ethernet connection and Modbus TCP/IP Ethernet connector; LAN version; 10/100 Mbps or Profinet or Ethernet IP RS485 communication: Profibus DP or Modbus RTU
Protection class	IP44
Material	Hinged part: Thermoform ABS, Door: PMMA Wall section: Galvanised steel, powder coated
Dimensions (H x W x D)	688 mm x 460 mm x 340 mm
Weight	Max. 35 kg
Certifications	CE, ETL certified to UL and CSA safety standards, UKCA

*Subject to change without notice.

Dimensions



Enable the Benefits of Smart Monitoring

This instrument connects to Claros, Hach's innovative Water Intelligence System. Claros allows you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiencies in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

Hach Service Protects Your Investment

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

EZ3505.98	X	X	X	X	X
Measurement range, no dilution					
2 - 100 mg/L Cl ⁻	0				
5 - 250 mg/L Cl ⁻					
10 - 500 mg/L Cl ⁻					
20 - 1000 mg/L Cl ⁻					
Internal dilution					
100 - 5000 mg/L Cl ⁻	V				
200 - 10000 mg/L Cl ⁻					
Power supply					
100 - 240 VAC, 50/60 Hz		0			
Number of sample streams					
1 stream			1		
Outputs					
4x mA				4	
8x mA				8	
4x mA + Modbus RTU				D	
8x mA + Modbus RTU				E	
4x mA + Modbus TCP/IP				I	
8x mA + Modbus TCP/IP				J	
4x mA + Profinet				N	
8x mA + Profinet				O	
4x mA + Profibus DP				S	
8x mA + Profibus DP				T	
4x mA + Ethernet/IP				X	
8x mA + Ethernet/IP				Y	
No adaption, "SC4500" version					OT

Accessories

APPAZ0080002 - Moduplex, 2 streams, Pinch Valve, 1/8" OD

APPAZ0080004 - Moduplex, 4 streams, Pinch Valve, 1/8" OD

APPAZ0080008 - Moduplex, 8 streams, Pinch Valve, 1/8" OD

