EZ3505sc Chloride Ion-Selective Electrode (ISE) Standard Addition Analyser, 1 stream, 4x mA

Product #:	**EZ3505.9700140T**
ZAR Price:	Contact Hach

Accurate Chloride Measurement in Variable Water Matrices

Changing water matrices, fouling and interferences can make chloride ISE measurements unstable. The EZ3505sc combines discontinuous ISE analysis with a standard addition method to compensate for matrix effects and deliver repeatable chloride results - even when sample conditions shift. Automated operation reduces manual calibration and sensor maintenance while supporting treatment efficiency and regulatory compliance.

Monitor up to eight sample streams from one analyser to reduce footprint and infrastructure cost. Standard analog and digital communications integrate easily with existing plant networks for real-time data, diagnostics and faster decisions.

Benefits:

- Standard addition compensates for interferences in variable matrices

- Discontinuous ISE analysis delivers stable, repeatable chloride results

- Reduces manual calibration and sensor maintenance

- Multi-stream capability: up to 8 sample points per analyser

- Easy integration via common analog/digital protocols

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.

Specifications

Ambient Temperature:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Analogue Outputs:	Active 0 - 20 mA (or 4 - 20 mA) max. 500 Ohm load, standard 4, optional: 8
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
Certifications:	CE, ETL certified to UL and CSA safety standards, UKCA
Cycle Time:	No dilution Default: 5 minutes Continuous: 4 minutes Internal dilution Default: 10 minutes Continuous: 7 minutes
Demineralised water:	Internal dilution option: Rinse water and Dilution water
Digital outputs:	Relays: 5 contacts, not user configurable: Malfuntion, 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
Dimensions (H x W x D):	688 mm x 460 mm x 340 mm
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
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 environement. Min. 0.2 bar - Max. 0.5 bar
Interferences:	Bromide [$(Br)^-$], sulphide [$(S)^{2-}$], iodide [$(I)^-$], cyanide [$(CN)^-$] ions may interfere. Mercury [$(Hg)^+$] must be absent. Ammonia [NH_3] and thiosulphate [$(S_2O_3)^{2-}$] may interfere. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	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
Material:	Hinged part: Thermoform ABS, Door: PMMA
	Wall section: Galvanised steel, powder coated
Measurement method:	Ion-Selective Electrode (standard addition)
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^-
Number of sample streams:	Standard: 1
	Optional accessory for 2, 4, or 8 sample streams
Parameter:	Chloride
Power:	100 - 240 VAC, 50/60 Hz
	Max. power consumption: 120 VA
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	IP44
Reagent requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel (open to atmospheric pressure)
Sample Quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample Temperature:	10 - 30 °C (50 - 86 °F)
Validation:	Automatic; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Warranty:	12 months
Weight:	Max. 35 kg (77 lb)
What's included?:	EZ3505sc Chloride Ion-Selective Electrode (ISE) Standard Addition Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Electrode and Chloride Electrode, combined, and 2 x empty 5L Reagent Containers with Fittings (for Buffer and Standard Cl Solution)

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