



EZ3005sc Chloride Ion-Selective Electrode (ISE) Analyser, 1 stream, 4x mA

Product #: EZ3005.9700140T
AED Price: Contact Hach

The Challenge of Consistent Chloride Monitoring

Chloride monitoring in municipal and industrial water can be disrupted by fouling, drift and temperature swings - creating extra maintenance and compliance risk. The EZ3005sc uses discontinuous ISE measurement with temperature control to deliver stable, precise chloride results with minimal operator intervention. Automated operation helps reduce routine maintenance and lower operating cost while keeping reliable chloride data available for process control.

Designed for straightforward integration, the analyser supports multiple analog and digital outputs - including Modbus, Profinet and Ethernet/IP - so you can bring results and diagnostics directly into your control system.

Benefits:

- Discontinuous ISE measurement with temperature control for repeatable results
- Automated operation reduces maintenance effort and operator time
- Efficient reagent use helps lower total cost of ownership
- Analog and digital connectivity: Modbus, Profinet and Ethernet/IP
- Real-time results and diagnostics to support compliance and process optimisation

Reliable, Stable Measurements

Avoid downtime from unreliable ISE data caused by temperature fluctuations. The EZ3005sc stabilises both sample and electrode using a temperature controlled flow cell, eliminating measurement errors and delivering precise, repeatable chloride results operators can trust.

Lower Maintenance Effort

Minimise downtime and service costs with the EZ3005sc. Automated 2 point calibration, reagent alerts, a rugged ISE electrode, and minimal moving parts extend maintenance intervals; so operators spend less time servicing instruments and more time on plant operations.

Reduced Operating Cost

The EZ3005sc helps optimise operating costs by reducing chemical consumption and service visits. Multi stream capability monitors up to eight sample lines, lowering cost per sampling point and extending equipment life.

Designed for easy integration into existing control systems

With a wide range of analogue and digital outputs, this analyser aligns with plant specific requirements, ensuring compatibility with existing infrastructure and immediate access to real time measurement data.

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; 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:	Default: 5 minutes Continuous: 5 minutes
Demineralised water:	Does not apply
Detection limit:	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
Digital outputs:	Relays: 5 contacts, not user configurable: Malfunction, 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
Flow rate:	100 - 300 mL/min
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
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.
Material:	Hinged part: Thermoform ABS, Door: PMMA Wall section: Galvanised steel, powder coated
Measurement method:	Discontinuous, direct measurement by combined Ion-Selective Electrode
Measuring range:	2 - 100 mg/L Cl ⁻ 5 - 250 mg/L Cl ⁻ 10 - 500 mg/L Cl ⁻ 20 - 1000 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 (50 - 86 °F)
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:	24 months
Weight:	Max. 35 kg (77 lb)
What's included?:	EZ3005sc Chloride Ion-Selective Electrode (ISE) Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Electrode and Chloride Electrode, combined, and 1 x empty 2.5L Reagent Container with Fittings (for Buffer Solution)

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