



Reliable Chloride Monitoring for Regulatory and Process Confidence



Hach's EZ3005sc Chloride Analyser



Hach's EZ3505sc Chloride Analyser

Accurate chloride monitoring is essential for regulatory compliance and process control in municipal and industrial water systems, including guidance referenced by the U.S. Environmental Protection Agency (EPA). However, fouling, drift, and changing water chemistry often limit the reliability of traditional ISE analysers.

The EZ sc Series Chloride Analysers deliver stable, defensible chloride measurements across both stable and complex water matrices, with minimal manual intervention.

EZ sc Designed for Real-World Chloride Applications:

- Direct measurement for stable, predictable water conditions
- Automated standard addition for high TDS or variable matrices, including cooling tower systems
- Temperature controlled measurement minimises drift
- Supports up to eight sample streams per analyser
- Digital and analog communications simplify integration
- Reliable performance in cooling towers, industrial process water, wastewater, and surface water

Regulatory Compliance

The World Health Organisation (WHO) and the US Environmental Protection Agency (EPA) recommend a maximum chloride level of 250 mg/L in drinking water to maintain taste quality. While no nationwide limits exist for wastewater effluent, local authorities may impose restrictions to protect sewage systems and biological treatment processes. Monitoring chloride levels ensures compliance and safeguards environmental and operational integrity.

Designed for Reliable Chloride Measurement in Diverse Water Conditions

The EZ sc Series Chloride Analyser, based on Ion Selective Electrode (ISE) technology, is designed to meet the need for dependable, adaptable chloride monitoring in municipal and industrial water systems. By reducing the impact of matrix effects and limiting the need for frequent manual adjustment, the EZ sc Series helps teams maintain reliable chloride data with less operational effort while supporting confident compliance and effective process control.

To address the unique challenges of diverse water matrices, the EZ sc Series offers two models. Select the right model for your application:

- **EZ3005sc Chloride Analyser:** Ideal for applications with stable sample composition, providing direct, reliable measurements with minimal maintenance requirements. Discontinuous, direct measurement by combined ion-selective electrode, conform with standard methods EPA 9212 and ASTM D512-12. Outstanding precision and stability is guaranteed by the temperature-controlled measurement.
- **EZ3505sc Chloride Analyser:** Features an automated standard addition method to handle complex and variable sample streams like cooling tower systems, ensuring accurate results even in challenging conditions.

Focus on Reliable Results, Less Maintenance

- **Measurement Drift Prevention:** The temperature-controlled flow cell and automated temperature compensation reduce measurement errors due to temperature fluctuations.
- **Maintenance Reduction:** Verify analyser performance with programmable, automatic 2-point calibration, validation and cleaning cycles.
- **Proactive Planning:** Automated reagent alerts support continuous monitoring by helping teams manage supplies ahead of time.
- **Simplified Troubleshooting:** Early alerts and detailed logs help your team identify and resolve issues with ease.
- **Standardised Operation:** Straightforward processes reduce the time and effort needed for staff training. Monitor up to eight sample streams per analyser, with analogue and digital communications.

Select the Right Model for Your Application

Choosing the correct analyser depends on your water matrix. We offer two distinct models to match your specific operational environment.

Application Consideration	EZ3005sc	EZ3505sc
Best suited for	Stable, consistent water quality	Variable or complex water matrices, like industrial process water, wastewater, surface water, or sea water
Typical application	Source water, surface water, RO feed water systems or municipal drinking water Routine checks, as per methods EPA 9212 and ASTM D512-12	Industrial process water, corrosive chloride analysis
Measurement approach	Discontinuous direct measurement	Dual measurement modes: Fully automated standard addition and discontinuous direct measurement
Operating conditions	Reliable data with minimal maintenance	Accurate results despite variable or complex water matrices

Take the Next Step

Ensure you have the right solution for your specific chloride monitoring needs.

Contact us today for a complimentary application review or expert model selection support.

