



EZ3008sc Fluoride Ion-Selective Electrode (ISE) Analyser, 1 stream, 4x mA

Product #: EZ3008.9700140T
ZAR Price: Contact Hach

Fluoride Monitoring for Operational Stability

Stable fluoride control is essential in drinking water and surface-water treatment, but manual sampling can be labor intensive and introduce variability. The EZ3008sc automates fluoride measurement using discontinuous ISE analysis with temperature-controlled readings for dependable, repeatable data. Gel-filled ISE technology eliminates electrolyte refilling, reducing routine service and helping lower total cost of ownership.

With multi-stream capability, optional grab sampling for spot checks, and seamless integration into SCADA/PLC/DCS, the analyser provides continuous results and diagnostics for confident compliance reporting and tighter process control.

Benefits:

- Temperature-controlled, discontinuous ISE analysis for repeatable fluoride results
- Gel-filled ISE electrodes eliminate electrolyte refilling
- Multi-stream monitoring and optional grab sampling for spot checks
- Reduced maintenance and service interventions
- Integrates with SCADA/PLC/DCS for real-time data and diagnostics

Stable Performance in Changing Conditions

The EZ3008sc delivers temperature controlled, discontinuous fluoride measurements with multi stream capability. Operators get stable, reliable data during process fluctuations, reducing manual checks and adjustments while maintaining confident day to day water quality control.

Reduced Maintenance and Service Costs

Designed for long-term operation, the analyser uses gel-filled ion-selective electrodes that eliminate the need for electrolyte refilling. This technology reduces reagent consumption, routine service interventions, maximises analyser uptime, and lowers the total cost of ownership over the instrument's lifetime.

Flexible Connectivity for Legacy and Modern Platforms

Integrate seamlessly into existing PLC, SCADA, DCS and plant network architectures with a built-in industrial panel PC. Real-time data transmission provides immediate visibility into diagnostics and status, enabling faster responses and improved decision-making across your facility.

Flexible Analysis for Multiple Streams

Conduct quick spot checks and investigations without interrupting routine monitoring using built-in grab sampling. When combined with the optional 8-channel sample stream, one analyser sequentially measures multiple process points: maximising asset utilization and coverage while simplifying your system architecture.

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
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
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:	Metal ions like aluminium [(Al) ³⁺] > 72 mg/L, calcium [(Ca) ²⁺] > 108 mg/L and iron [(Fe) ²⁺]/[(Fe) ³⁺] > 150 mg/L. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	0.05 - 2.5 mg/L F ⁻ : 0.05 mg/L 0.1 - 5 mg/L F ⁻ : 0.1 mg/L 0.2 - 10 mg/L F ⁻ : 0.2 mg/L
Material:	Hinged part: Thermoform ABS, Door: PMMA Wall section: Galvanised steel, powder coated
Measurement method:	Ion-Selective Electrode
Measuring range:	0.05 - 2.5 mg/L F ⁻ 0.1 - 5 mg/L F ⁻ 0.2 - 10 mg/L F ⁻
Number of sample streams:	Standard: 1 Optional accessory for 2, 4, or 8 sample streams
Parameter:	Fluoride
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 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?:	EZ3008sc Fluoride Ion-Selective Electrode (ISE) Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Fluoride Electrode and 1 x empty 2.5L Reagent Container with Fittings (for Buffer Solution)

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