EZ3508sc Fluoride Ion-Selective Electrode (ISE) Standard Addition Analyser, 1 stream, 4x mA

Product #: **EZ3508.9700140T**

ZAR Price: Contact Hach

Reliable Fluoride Measurement in Complex Water Matrices

Fluoride measurement in wastewater and industrial process water can be distorted by matrix effects from ions such as calcium and aluminum. The EZ3508sc uses a standard addition method to compensate for these interferences, delivering accurate, repeatable fluoride results while minimising reagent consumption.

Designed for reliable operation, gel-filled ISE electrodes eliminate electrolyte refilling and automated cleaning and calibration reduce hands-on maintenance. Digital communication protocols integrate the analyser into your network for immediate access to results, diagnostics and status.

Benefits:

- Standard addition compensates for matrix effects in complex samples

- Accurate, repeatable fluoride results with low reagent consumption

- Gel-filled ISE electrodes eliminate electrolyte refilling

- Automated cleaning and calibration reduce manual service

- Digital connectivity for fast access to results, diagnostics and status

Consistent Results in Challenging Conditions
Fluctuating water quality often compromises conventional monitoring, leading to unstable readings. The EZ3508sc uses discontinuous and standard addition modes to compensate for these matrix interferences. You get accurate, continuous fluoride data for stable process control, even as conditions change.

Reduced Maintenance and Manual Effort
Gel-filled ion selective electrodes eliminate electrolyte refilling, while automated cleaning and calibration reduce routine service needs. Discontinuous standard addition method optimises buffer and reagent consumption; lowering site visits, operating costs, and overall maintenance effort.

Seamless Integration and Connectivity
Isolated data makes process control and reporting difficult. The integrated controller platform supports standard digital communication protocols for easy connection to your existing network. You gain immediate access to critical insights, supporting faster decision-making and remote troubleshooting.

Streamlined Operation and Usability
Complex instrumentation often leads to training bottlenecks and operational errors. The unified controller interface simplifies setup and daily interaction. Operators of any experience level can easily manage the system, reducing training requirements and preventing errors during routine checks.

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: 5 minutes
	Internal dilution
	Default: 10 minutes
	Continuous: 8 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:	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):	No dilution
	0.2 - 10 mg/L F^-: 0.2 mg/L
	0.5 - 25 mg/L F^-: 0.5 mg/L
	1 - 50 mg/L F^-: 1 mg/L
	2 - 100 mg/L F^-: 2 mg/L
	Internal dilution
	10 - 500 mg/L F^-: 10 mg/L
	20 - 1000 mg/L F^-: 20 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
	0.2 - 10 mg/L F^-
	0.5 - 25 mg/L F^-
	1 - 50 mg/L F^-
	2 - 100 mg/L F^-
	Internal dilution
	10 - 500 mg/L F^-
	20 - 1000 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?:	EZ3508sc Fluoride Ion-Selective Electrode (ISE) Standard Addition Analyser, 1 stream, 4x mA, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Electrode, 1 x empty 5L Reagent Container with Fittings (for F Standard Solution) and 1 x empty 10L Reagent Container with Fittings (for Buffer Solution)

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