



EZ3507 Fluoride Analyser

Product #: EZ3507.XXXXXXXXXX
ZAR Price: Contact Hach

Online ion-selective Fluoride measurements with standard addition for industrial applications

ISE technology for complex water matrices

The EZ3500 Series are used for water monitoring applications where ion-selective electrodes are the preferred analytical technique, but the water matrix is complex. Standard addition helps minimise matrix interferences that otherwise might contribute to the output signal of the electrode.

Discontinuous, automatic standard addition

The EZ3500 Series run discontinuous measurements with careful addition of a known standard in an analysis vessel. Discontinuous ISE analysis enhances control over the potentiometry, eliminates cross-contamination between cycles and reduces overall reagent consumption.

The EZ3500 Series combine unique technology with a set of analysis, control and communication features in an industrial analyser mainframe designed for the highest performance:

- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

There are many additional options available. Please contact Hach for more details.

Specifications

Alarm:	1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Ambient Temperature:	10 - 30 °C \pm 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Analogue Outputs:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Automatic cleaning:	Yes
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified
Cycle Time:	8 minutes
Demineralised water:	For rinsing

Digital outputs:	Optional: Modbus (TCP/IP, RS485)
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 32 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 0.1 mg/L
Material:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Measurement method:	Discontinuous measurement by combined ion-selective electrode with standard addition
Measuring range:	0.5 - 10 mg/L F ⁻
	Optional:
	0.1 - 2.5 mg/L F ⁻
	0.25 - 5 mg/L F ⁻
Model:	EZ3507
Number of sample streams:	1, 2, 4 or 8
Parameter:	Fluoride
Power:	100 - 240 VAC, 50/60 Hz
	Max. power consumption: 120 VA
Power supply:	100 - 240 VAC, 50/60 Hz
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	Protection class: Analyser cabinet: IP44 / Panel PC: IP65
Range:	0.5 - 10 mg/L F ⁻
Reagent requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
Sample Pressure:	By external overflow vessel
Sample Quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample Temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	12 months
Weight:	25 kg
What's included?:	EZ3507 Fluoride Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Electrode and Fluoride Electrode, combined, 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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