



# EZ3008sc Online ISE Fluoride Analyzer for Clean Water

## Applications

- Drinking Water
- Surface Water



## Fluoride Monitoring for Operational Stability

Maintaining stable fluoride levels is challenging when manual sampling causes drift and variability. The EZ3008sc Fluoride Analyzer automates fluoride measurement using discontinuous ISE monitoring to improve precision and reduce reagent consumption. Automated, repeatable measurements support confident compliance reporting and tighter process control. By minimizing manual intervention, operators reduce workload, trust their data, and focus resources on higher value operational tasks across demanding water treatment applications.

### 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 analyzer uses gel-filled ion-selective electrodes that eliminate the need for electrolyte refilling. This technology reduces reagent consumption, routine service interventions, maximizes analyzer 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

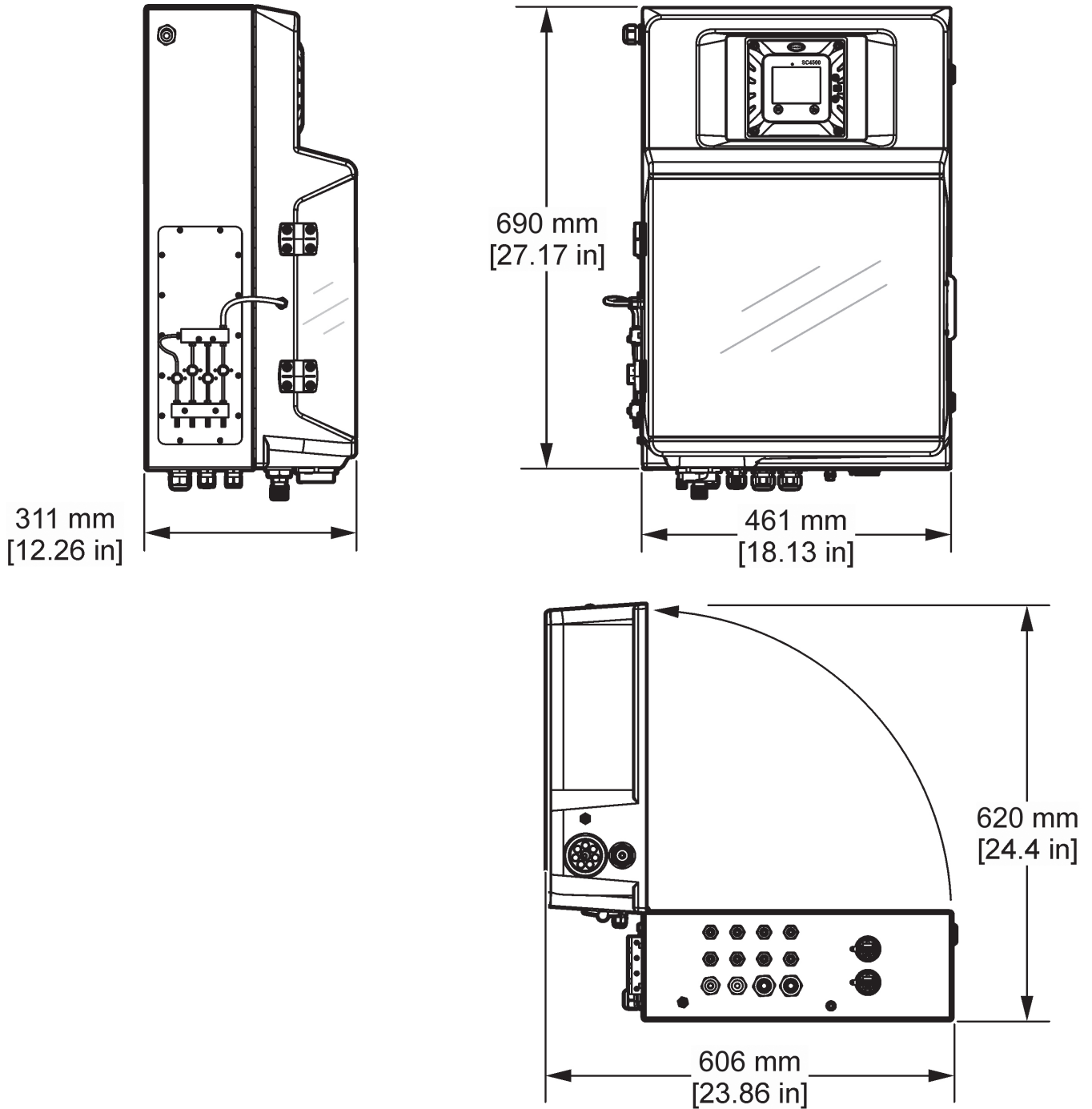
Conduct quick spot checks and investigations without interrupting routine monitoring using built-in grab sampling. When combined with the optional 8-channel sample stream, one analyzer sequentially measures multiple process points: maximizing asset utilization and coverage while simplifying your system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

## Technical Data\*

Model	EZ3008sc
Parameter	Fluoride
Range	0.05 - 2.5 mg/L F <sup>-</sup> 0.1 - 5 mg/L F <sup>-</sup> 0.2 - 10 mg/L F <sup>-</sup>
Lower Limit of Detection (LOD)	0.05 - 2.5 mg/L F <sup>-</sup> : 0.05 mg/L 0.1 - 5 mg/L F <sup>-</sup> : 0.1 mg/L 0.2 - 10 mg/L F <sup>-</sup> : 0.2 mg/L
Precision	Better than 2% full scale range for standard test solutions
Measurement Method	Discontinuous, direct measurement by combined Ion-Selective Electrode
Cycle Time	Default: 5 minutes Continuous: 5 minutes
Sample Temperature	50 - 86 °F (10 - 30 °C)
Sample Quality	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Interferences	Metal ions like aluminium [(Al) <sup>3+</sup> ] > 72 mg/L, calcium [(Ca) <sup>2+</sup> ] > 108 mg/L and iron [(Fe) <sup>2+</sup> ]/[(Fe) <sup>3+</sup> ] > 150 mg/L. Fats, oil, proteins, surfactants and tar.
Reagent Requirements	Keep between 50 - 86 °F (10 - 30 °C)
Demineralized Water	Does not apply
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
Validation	Automatic; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Ambient Temperature	50 - 86 °F (10 - 30 °C) ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Sample Pressure	By external overflow vessel (open to atmospheric pressure)
Sample Flow Rate	100 - 300 mL/min
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA
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
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 <sup>2</sup>
Analog Outputs	Active 0 - 20 mA (or 4 - 20 mA) max. 500 Ohm load, standard 4, optional: 8
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
Protection Class	IP44
Material	Hinged part: Thermoform ABS, Door: PMMA Wall section: Galvanized steel, powder coated
Dimensions (H x W x D)	688 mm x 460 mm x 340 mm
Weight	Max. 77 lb (35 kg)
Certifications	CE, ETL certified to UL and CSA safety standards, UKCA

\*Subject to change without notice.

## Dimensions



### Enable the Benefits of Smart Monitoring

This instrument connects to Claros, Hach's innovative Water Intelligence System. Claros allows you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiencies in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

### Hach Service Protects Your Investment

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

## Order Information

EZ3008.97	X	X	X	X	X
<b>Measurement range</b>					
0.05 - 2.5 mg/L F <sup>-</sup>	0				
0.1 - 5 mg/L F <sup>-</sup>					
0.2 - 10 mg/L F <sup>-</sup>					
<b>Power supply</b>					
100 - 240 VAC, 50/60 Hz		0			
<b>Number of sample streams</b>					
1 stream			1		
<b>Outputs</b>					
4x mA				4	
8x mA				8	
4x mA + Modbus RTU				D	
8x mA + Modbus RTU				E	
4x mA + Modbus TCP/IP				I	
8x mA + Modbus TCP/IP				J	
4x mA + Profinet				N	
8x mA + Profinet				O	
4x mA + Profibus DP				S	
8x mA + Profibus DP				T	
4x mA + Ethernet/IP				X	
8x mA + Ethernet/IP				Y	
No adaption, "SC4500" version					OT

## Accessories

APPAZ0080002 - Moduplex, 2 streams, Pinch Valve, 1/8" OD

APPAZ0080004 - Moduplex, 4 streams, Pinch Valve, 1/8" OD

APPAZ0080008 - Moduplex, 8 streams, Pinch Valve, 1/8" OD

