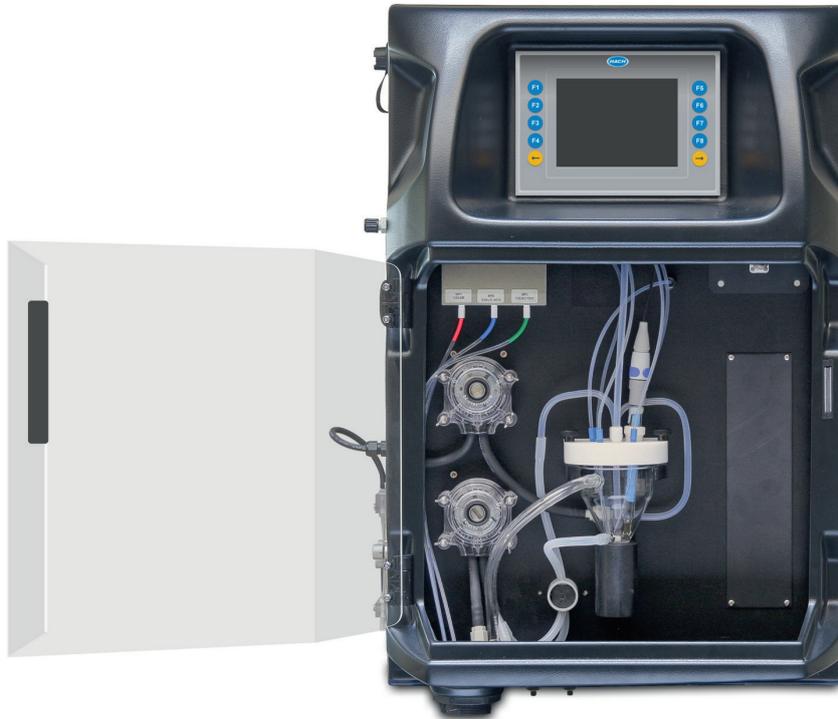


# EZ3500 Series Fluoride Analyzers

## Applications

- Wastewater
- Process Water



## 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 minimize 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 analyzer mainframe designed for the highest performance:

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



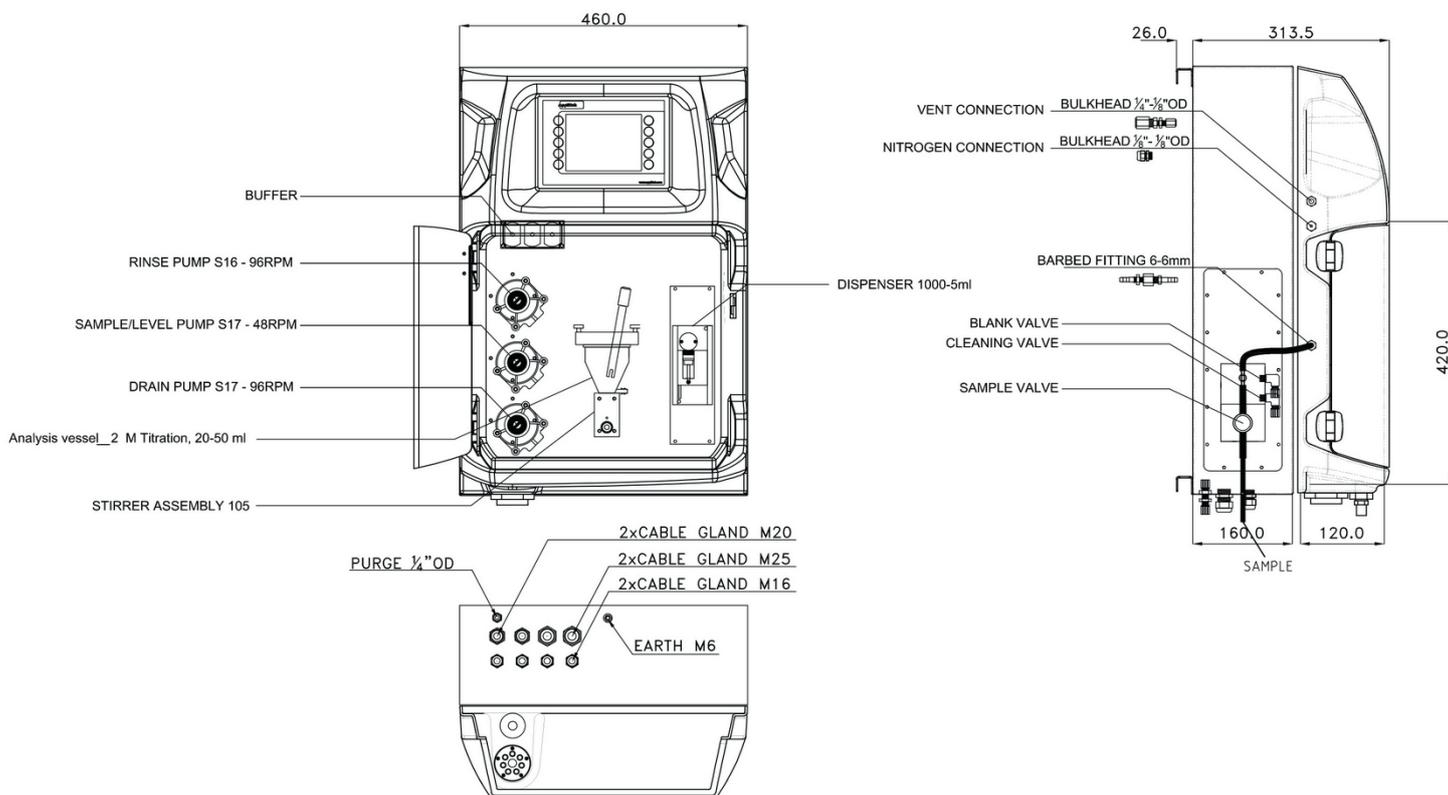
Be Right™

## Technical Data\*

| Model                          | EZ3507  | EZ3508   |
|--------------------------------|---|--|
| Parameter                      | Fluoride  | Fluoride   |
| Range                          | 0.5 - 10 mg/L F <sup>-</sup><br>Optional:<br>0.1 - 2.5 mg/L F <sup>-</sup><br>0.25 - 5 mg/L F <sup>-</sup>                | 5 - 100 mg/L F <sup>-</sup><br>Optional:<br>1 - 25 mg/L F <sup>-</sup><br>2.5 - 50 mg/L F <sup>-</sup> |
| Lower Limit of Detection (LOD) | ≤ 0.1 mg/L  | ≤ 1 mg/L   |
| Precision                      | Better than 2% full scale range for standard test solutions   |  |
| Measurement Method             | Discontinuous measurement by combined ion-selective electrode with standard addition                                      |  |
| Interferences                  | Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L.<br>Fats, oil, proteins, surfactants and tar. |  |
| Cycle Time                     | 8 minutes   |  |
| Automatic cleaning             | Yes   |  |
| Calibration                    | Automatic, 2-point; frequency freely programmable   |  |
| Validation                     | Automatic; frequency freely programmable  |  |
| Ambient Temperature            | 10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)  |  |
| Reagent Requirements           | Keep between 10 - 30 °C (50 - 86 °F)  |  |
| Sample Pressure                | By external overflow vessel   |  |
| Sample Flow Rate               | 100 - 300 mL/min  |  |
| Sample Temperature             | 10 - 30 °C (50 - 86 °F)   |  |
| Sample Quality                 | Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU   |  |
| Power                          | 110 - 240 VAC, 4 A, 50/60 Hz Max. power consumption: 150 VA   |  |
| Instrument Air                 | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air  |  |
| Demineralized Water            | For rinsing   |  |
| Drain                          | Atmospheric pressure, vented, min. Ø 64 mm  |  |
| 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 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)   |  |
| Digital Outputs                | Optional: RS232, Modbus (TCP/IP, RS485)   |  |
| Alarm                          | 1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts                                       |  |
| Protection Class               | Analyzer cabinet: IP55 / Panel PC: IP65   |  |
| Material                       | Hinged part: Thermoform ABS, door: plexiglass<br>Wall section: Galvanized steel, powder coated                            |  |
| Dimensions (H x W x D)         | 690 mm x 465 mm x 330 mm  |  |
| Weight                         | 25 kg (55 lbs.)   |  |
| Certifications                 | CE compliant / UL certified   |  |

\*Subject to change without notice.

## Dimensions



## Hach Service

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 - Part Number Configurator

|  |           |   |   |   |   |   |   |
|--|-----------|---|---|---|---|---|---|
| Standard range, 0.5-10 mg/L F <sup>-</sup>           | EZ3507.99 | X | X | X | X | X | 2 |
| Standard range, 5-100 mg/L F <sup>-</sup>            | EZ3508.99 |   |   |   |   |   |   |
| <b>Measurement range settings / Dilution options</b> |           |   |   |   |   |   |   |
| 25% of standard range                                |           | B |   |   |   |   |   |
| 50% of standard range                                |           | C |   |   |   |   |   |
| Standard range                                       |           | 0 |   |   |   |   |   |
| Customized   |           | Z |   |   |   |   |   |
| <b>Power supply</b>                                  |           |   |   |   |   |   |   |
| Standard 110 - 240 VAC; 50/60 Hz                     |           |   | 0 |   |   |   |   |
| Customized   |           |   | Z |   |   |   |   |
| <b>Number of sample streams</b>                      |           |   |   |   |   |   |   |
| 1 stream   |           |   |   |   | 1 |   |   |
| 2 streams  |           |   |   |   | 2 |   |   |
| 3 streams  |           |   |   |   | 3 |   |   |
| 4 streams  |           |   |   |   | 4 |   |   |
| 5 streams  |           |   |   |   | 5 |   |   |
| 6 streams  |           |   |   |   | 6 |   |   |
| 7 streams  |           |   |   |   | 7 |   |   |
| 8 streams  |           |   |   |   | 8 |   |   |
| <b>Outputs</b>                                       |           |   |   |   |   |   |   |
| 1x mA  |           |   |   |   |   | 1 |   |
| 2x mA  |           |   |   |   |   | 2 |   |
| 3x mA  |           |   |   |   |   | 3 |   |
| 4x mA  |           |   |   |   |   | 4 |   |
| 5x mA  |           |   |   |   |   | 5 |   |
| 6x mA  |           |   |   |   |   | 6 |   |
| 7x mA  |           |   |   |   |   | 7 |   |
| 8x mA  |           |   |   |   |   | 8 |   |
| RS232  |           |   |   |   |   | A |   |
| Modbus TCP/IP  |           |   |   |   |   | B |   |
| Modbus RS485   |           |   |   |   |   | C |   |
| 1x mA + Modbus RS485                                 |           |   |   |   |   | E |   |
| 2x mA + Modbus RS485                                 |           |   |   |   |   | F |   |
| 3x mA + Modbus RS485                                 |           |   |   |   |   | G |   |
| 4x mA + Modbus RS485                                 |           |   |   |   |   | H |   |
| 1x mA + Modbus TCP/IP                                |           |   |   |   |   | I |   |
| 2x mA + Modbus TCP/IP                                |           |   |   |   |   | J |   |
| 3x mA + Modbus TCP/IP                                |           |   |   |   |   | K |   |
| 4x mA + Modbus TCP/IP                                |           |   |   |   |   | L |   |
| Customized / combined                                |           |   |   |   |   | Z |   |
| <b>Specials</b>                                      |           |   |   |   |   |   |   |
| No adaption, standard version                        |           |   |   |   |   |   | 0 |
| Customer specific adaptations required, to specify   |           |   |   |   |   |   | S |