



## EZ3503 Chloride Analyser

**Product #:** EZ3503.XXXXXXXXXX  
**AED Price:** Contact Hach

### Online ion-selective Chloride 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.

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## Specifications

|                      |   |
|----------------------|---|
| Alarm:               | 1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts |
| Ambient temperature: | 10 - 30 °C ±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   |

|                           |   |
|---------------------------|---|
| Detection limit:          | 1 mg/L  |
| 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   |
| Flow rate:                | 100 - 300 mL/min  |
| Instrument air:           | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air  |
| Interferences:            | Bromide, sulphide, iodide, cyanide ions may interfere. Mercury must be absent. Ammonia and thiosulphate may interfere. Fats, oil, proteins, surfactants and tar.  |
| 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:          | 1 – 10 mg/L   |
| Method:                   | Ionselective (standard addition)  |
| Model:                    | EZ3503  |
| Number of sample streams: | 1, 2, 4 or 8  |
| Parameter:                | Chloride  |
| 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   |
| Reagent Requirements:     | Keep between 10 - 30 °C   |
| 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:                 | 24 months   |
| Weight:                   | 25 kg   |
| What's included?:         | EZ3503 Chloride Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x ISE Electrode and Chloride Electrode, combined, and 2 x empty 5L Reagent Containers with Fittings (for Buffer and Standard Cl Solution) |

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