



## **EZ5002 Total Hardness Analyser (TH, THCa)**

**Proizvod #:** EZ5002.XXXXXXXXXX  
**EUR Cijena:** Kontaktirajte nas

### **Online automatic titration of Total Hardness + Calcium Hardness in water**

EZ5000 Series Analysers are multi-parameter titrators that achieve excellent precision and accuracy. Depending on the parameter of interest, the measuring range and the water matrix the EZ5000 Series may use either potentiometry i.e. acid-base, redox or precipitation titration, where the endpoint is determined by a change in a specific variable, or photolorimetry, where colour change is used to determine the endpoint of the titration. The high precision dispenser for addition, robust peristaltic pumps for sampling and drain, and carefully designed liquid pathways all add up to the highest performance for industrial and environmental analysis needs.

### **Results you can rely on**

Smart automatic features for validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximised uptime and negligible operator intervention. Sample lines and analysis vessel are cleaned with demineralised water to eliminate cross contamination between samples. Electronic and wet-chemical part of the analyser are strictly separated. A transparent door allows for instant visual inspection of the wet part.

### **Flexibility that meets your needs**

EZ Series Alkalinity and Hardness Analysers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated industrial panel PC. The modular build allows for the analyser to match your application and operational needs.

- The standard measuring range can be narrowed by a different calibration range or extended via internal dilution options.
- Analogue and digital output options
- Multiple stream analysis for up to 8 sample streams

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

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## **Specifikacije**

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|----------------------|---|
| Alarma:              | 1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts |
| Analogni izlazi:     | Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)                       |
| Broj uzoraka:        | 1, 2, 4 or 8  |
| Certificiranja:      | CE compliant / UL certified   |
| Demineralised water: | For rinsing / dilution  |
| Digital outputs:     | Optional: Modbus (TCP/IP, RS485)  |

|                        |  |
|------------------------|--|
| Dimenzije (V x Š x D): | 690 mm x 465 mm x 330 mm   |
| Earth connection:      | Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>  |
| Garancija:             | 24 mjeseci   |
| Granica detekcije:     | ≤ 10 mg/L  |
| Instrument air:        | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air   |
| Interferencija :       | Hardness: Some metal ions interfere by causing fading or indistinct end points or by stoichiometric consumption of EDTA. Suspended or colloidal organic matter also may interfere with the end point. Large amounts of colour and turbidity interferes. Fats, oil, proteins, surfactants and tar.<br><br>Alkalinity: Soaps, oily matter, suspended solids or precipitates may coat the glass electrode and cause a sluggish response. Allow additional time between titrant additions to let the electrode come to equilibrium or clean the electrodes occasionally. |
| Kalibracija:           | N.A.   |
| Kivete:                | 20 - 30 minutes<br><br>40 minutes (+ Total Hardness Ca)  |
| Klasa zaštite:         | Protection class: Analyser cabinet: IP44 / Panel PC: IP65  |
| Kvaliteta uzorka:      | Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU  |
| Masa:                  | 25 kg  |
| Materijal:             | Hinged part: Thermoform ABS, door: PMMA<br><br>Wall section: Galvanised steel, powder coated   |
| Mjerna metoda:         | Acid-base titration (alkalinity only); Calmagite EDTA titration with LED dipping probe (combined)  |
| Mjerni rang:           | 100 - 1000 mg/L CaCO <sub>3</sub><br><br>Optional:<br><br>10 - 100 mg/L CaCO <sub>3</sub><br><br>25 - 250 mg/L CaCO <sub>3</sub><br><br>50 - 500 mg/L CaCO <sub>3</sub>  |
| Napajanje:             | Internal dispenser dilution (max. factor 100)<br>100 - 240 VAC, 50/60 Hz<br><br>Max. power consumption: 120 VA   |
| Naziv metode:          | Titrimetric  |
| Odvod:                 | Atmospheric pressure, vented, min. Ø 32 mm   |
| Parametar:             | Total Hardness & Calcium Hardness (THCa)   |
| Precision:             | Better than 2% full scale range for standard test solutions  |
| Protok uzorka:         | 100 - 300 mL/min   |
| Reagent Requirements:  | Keep between 10 - 30 °C  |
| Što je u pretincu:     | EZ5002 Total Hardness and Calcium Hardness Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 5 x empty 2.5L Reagent Containers with Fittings (Acid, Buffer CaMg, Colour CaMg, Buffer Ca, Colour Ca Solution) and 1 x empty 10L Reagent Container with Fittings (EDTA Solution)   |
| Temperatura prostora:  | 10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)  |
| Temperatura uzorka:    | 10 - 30 °C   |
| Uzorak: tlak:          | By external overflow vessel  |

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