



## **EZ5005 Total Hardness + Total / Free Alkalinity Analyser**

**Kat. číslo produktu:** EZ5005.XXXXXXXXXX  
**EUR Cena bez DPH:** Kontaktujte nás

### **Online automatic titration of Total Hardness + Total Alkalinity + Free Alkalinity 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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### **Technické údaje**

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|----------------------|---------------------------------------------------------------------------------------|
| Alarm:               | 1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts |
| Analógové výstupy:   | Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)                       |
| Č. prúdov vzoriek:   | 1, 2, 4 or 8                                                                          |
| Certifikácia:        | CE compliant / UL certified                                                           |
| Demineralised water: | For rinsing                                                                           |
| Detekčný limit:      | ≤ 10 mg/L                                                                             |

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| Digitálne výstupy:    | Optional: Modbus (TCP/IP, RS485)                                                                                                                                                                                                                                                                                                                        |
| Doba cyklu :          | 20 - 30 minutes                                                                                                                                                                                                                                                                                                                                         |
|                       | 40 minutes (+ Total Hardness Ca)                                                                                                                                                                                                                                                                                                                        |
| Earth connection:     | Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                     |
| Hmotnosť:             | 25 kg                                                                                                                                                                                                                                                                                                                                                   |
| Instrument air:       | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air                                                                                                                                                                                                                                                                      |
| Interferencie:        | 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.                                                       |
|                       | 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.                                                                                             |
| Kalibrácia:           | N.A.                                                                                                                                                                                                                                                                                                                                                    |
| Kvalita vzorky:       | Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU                                                                                                                                                                                                                                                                                             |
| Materiál:             | Hinged part: Thermoform ABS, door: PMMA                                                                                                                                                                                                                                                                                                                 |
|                       | Wall section: Galvanised steel, powder coated                                                                                                                                                                                                                                                                                                           |
| Metóda merania:       | Acid-base titration (alkalinity only); Calmagite EDTA titration with LED dipping probe (combined)                                                                                                                                                                                                                                                       |
| Napájanie:            | 100 - 240 VAC, 50/60 Hz                                                                                                                                                                                                                                                                                                                                 |
|                       | Max. power consumption: 120 VA                                                                                                                                                                                                                                                                                                                          |
| Názov metódy:         | Titrimetric                                                                                                                                                                                                                                                                                                                                             |
| Obsah balenia:        | EZ5005 Total Hardness and Free/Total Alkalinity Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x pH Electrode, Routine S7 Connection, 1 x Photometer Probe, 3 x empty 2.5L Reagent Containers with Fittings (Buffer, Acid & Colour Solution) and 2 x empty 10L Reagents Containers with Fittings (EDTA & HCl Solution) |
| Odtok:                | Atmospheric pressure, vented, min. Ø 32 mm                                                                                                                                                                                                                                                                                                              |
| Parameter:            | Hardness, total; Alkalinity, total; Alkalinity, free                                                                                                                                                                                                                                                                                                    |
| Presnosť:             | Better than 2% full scale range for standard test solutions                                                                                                                                                                                                                                                                                             |
| Reagent Requirements: | Keep between 10 - 30 °C                                                                                                                                                                                                                                                                                                                                 |
| Rozmery (V x Š x H):  | 690 mm x 465 mm x 330 mm                                                                                                                                                                                                                                                                                                                                |
| Rozsah merania:       | Total Hardness: 25 - 1000 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                        |
|                       | Alkalinity: 100 - 5000 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                           |
|                       | Optional:                                                                                                                                                                                                                                                                                                                                               |
|                       | Total Hardness: 10 - 100 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                         |
|                       | Alkalinity: 10 - 500 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                             |
|                       | Total Hardness: 10 - 250 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                         |
|                       | Alkalinity: 25 - 1250 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                            |
|                       | Total Hardness: 25 - 500 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                         |
|                       | Alkalinity: 50 - 2500 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                                                                            |

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|---------------------------|---------------------------------------------------------------------------|
| Rýchlosť prietoku vzorky: | 100 - 300 mL/min                                                          |
| Teplota prostredia:       | 10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing) |
| Teplota vzorky:           | 10 - 30 °C                                                                |
| Trieda ochrany:           | Protection class: Analyser cabinet: IP44 / Panel PC: IP65                 |
| Validation:               | Automatic; frequency freely programmable                                  |
| Vzorka: tlak:             | By external overflow vessel                                               |
| Záruka:                   | 24 mesiacov                                                               |

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## Obsah balenia

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