



## EZ4044 Calcium Hardness Analyser

**Termékszám:** EZ4044.XXXXXXXXXX  
**HUF Ár (nettó):** Elérhetőségünk

### Online, automatic titration of Calcium Hardness in water monitoring applications

#### State of the art titration platform

The EZ4000 Series Analysers are single-parameter titrators built on an industrial analytical platform. High precision dispensers, robust peristaltic pumps and carefully designed liquid pathways all add up to the highest performance for industrial and environmental analysis needs.

#### Unique flexibility in titration methods

Every application starts with the basics: the right titrimetric technique for the parameter of interest, the measuring range and the water matrix. Depending on the change in the specific variables, the EZ4000 Series run either acid-base, redox, precipitation or photocolorimetric titration allowing for a unique flexibility.

The EZ4044 Calcium Hardness Analysers use colorimetric titration. They combine an unparalleled expertise in online titration with a set of unique analysis, control and communication features in a compact footprint:

- Wide standard range of 10 - 1000 mg/L  $\text{CaCO}_3$
- 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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### Műszaki adatok

A doboz tartalma:

EZ4044 Calcium Hardness Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 2 x empty 2.5L Reagent Containers with Fittings (for Colour & Acid Solution), 1 x empty 5L Reagent Container with Fittings (for Buffer Solution) and 1 x empty 10L Reagent Container with Fittings (for EDTA Solution)

Analóg kimenetek:

Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)

Anyag:

Hinged part: Thermoform ABS, door: PMMA

|                         |                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Wall section: Galvanised steel, powder coated                                                                                                                                                                                                                                          |
| Demineralised water:    | For rinsing / dilution                                                                                                                                                                                                                                                                 |
| Detektálási határ:      | ≤ 10 mg/L                                                                                                                                                                                                                                                                              |
| Digitális kimenetek:    | Optional: Modbus (TCP/IP, RS485)                                                                                                                                                                                                                                                       |
| Earth connection:       | Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>                                                                                                                                                                                    |
| Garancia:               | 24 hónap                                                                                                                                                                                                                                                                               |
| Instrument air:         | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air                                                                                                                                                                                                     |
| Interferenciák:         | 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 interfere. Fats, oil, proteins, surfactants and tar. |
| Kalibrálás:             | N.A.                                                                                                                                                                                                                                                                                   |
| Környezeti hőmérséklet: | 10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)                                                                                                                                                                                                              |
| Lefolyócső:             | Atmospheric pressure, vented, min. Ø 32 mm                                                                                                                                                                                                                                             |
| Mérés módszer:          | Colorimetric titration by EDTA using colour indicator hydroxynaphthol blue at 620 nm.                                                                                                                                                                                                  |
| Méréstartomány:         | 100 - 1000 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                      |
|                         | Optional:                                                                                                                                                                                                                                                                              |
|                         | 10 - 100 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                        |
|                         | 25 - 250 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                        |
|                         | 50- 500 mg/L CaCO <sub>3</sub>                                                                                                                                                                                                                                                         |
|                         | Internal dispenser dilution (max. factor 100)                                                                                                                                                                                                                                          |
| Méreték (MxSZxM):       | 690 mm x 465 mm x 330 mm                                                                                                                                                                                                                                                               |
| Minta hőmérséklet:      | 10 - 30 °C                                                                                                                                                                                                                                                                             |
| Minta minőség:          | Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU                                                                                                                                                                                                                            |
| Minta: nyomás:          | By external overflow vessel                                                                                                                                                                                                                                                            |
| Mintaáram:              | 100 - 300 mL/min                                                                                                                                                                                                                                                                       |
| Mintacellák:            | 10 - 15 minutes                                                                                                                                                                                                                                                                        |
| Mintautak száma:        | 1, 2, 4 or 8                                                                                                                                                                                                                                                                           |
| Módszer név:            | Titrimetric                                                                                                                                                                                                                                                                            |
| Paraméter:              | Calcium Hardness                                                                                                                                                                                                                                                                       |
| Pontosság:              | Better than 2% full scale range for standard test solutions                                                                                                                                                                                                                            |
| Reagent Requirements:   | Keep between 10 - 30 °C                                                                                                                                                                                                                                                                |
| Riasztás:               | 1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts                                                                                                                                                                                                    |
| Súly:                   | 25 kg                                                                                                                                                                                                                                                                                  |
| Tanúsítványok:          | CE compliant / UL certified                                                                                                                                                                                                                                                            |
| Teljesítmény:           | 100 - 240 VAC, 50/60 Hz                                                                                                                                                                                                                                                                |
|                         | Max. power consumption: 120 VA                                                                                                                                                                                                                                                         |
| Típus:                  | EZ4044                                                                                                                                                                                                                                                                                 |
| Validation:             | Automatic; frequency freely programmable                                                                                                                                                                                                                                               |
| Védettségi osztály:     | Protection class: Analyser cabinet: IP44 / Panel PC: IP65                                                                                                                                                                                                                              |

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