



EZ5003 Total Hardness + Free Alkalinity Analyser

Termékszám: EZ5003.XXXXXXXXXX
HUF Ár (nettó): Elérhetőségünk

Online automatic titration of Total Hardness + 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.

Műszaki adatok

A doboz tartalma:

EZ5003 Total Hardness and Free Alkalinity Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x pH Electrode, Routine S7 Connection, 1 x Photometer Probe, 1 x Mounting Brackets, 3 x empty 2.5L Reagent Containers with Fittings (Buffer, Acid & Colour Solution) and 2 x empty 10L Reagent Containers with Fittings (EDTA , HCl 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
Detektálási határ:	$\leq 10 \text{ mg/L}$
Digitális kimenetek:	Optional: Modbus (TCP/IP, RS485)
Earth connection:	Dry and clean earth pole with low impedance ($< 1 \text{ Ohm}$) using an earth cable of $> 2.5 \text{ mm}^2$
Garancia:	24 hónap
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferenciák:	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.
Kalibrálás:	N.A.
Környezeti hőmérséklet:	$10 - 30 \text{ }^{\circ}\text{C} \pm 4 \text{ }^{\circ}\text{C}$ deviation at 5 - 95% relative humidity (non-condensing)
Lefolyócső:	Atmospheric pressure, vented, min. $\varnothing 32 \text{ mm}$
Mérés módszer:	Acid-base titration (alkalinity only); Calmagite EDTA titration with LED dipping probe (combined)
Méréstartomány:	Total Hardness: 25 - 1000 mg/L CaCO_3 Alkalinity: 100 - 5000 mg/L CaCO_3
	Optional:
	Total Hardness: 10 - 100 mg/L CaCO_3 Alkalinity: 10 - 500 mg/L CaCO_3
	Total Hardness: 10 - 250 mg/L CaCO_3 Alkalinity: 25 - 1250 mg/L CaCO_3
	Total Hardness: 25 - 500 mg/L CaCO_3 Alkalinity: 50 - 2500 mg/L CaCO_3
Méreték (MxSZxM):	690 mm x 465 mm x 330 mm
Minta hőmérséklet:	$10 - 30 \text{ }^{\circ}\text{C}$
Minta minőség:	Maximum particle size $100 \text{ }\mu\text{m}$, $< 0.1 \text{ g/L}$; Turbidity $< 50 \text{ NTU}$
Minta: nyomás:	By external overflow vessel
Mintaáram:	100 - 300 mL/min
Mintacellák:	20 - 30 minutes 40 minutes (+ Total Hardness Ca)
Mintautak száma:	1, 2, 4 or 8
Módszer név:	Titrimetric
Paraméter:	Hardness, total; Alkalinity, free
Pontosság:	Better than 2% full scale range for standard test solutions
Reagent Requirements:	Keep between $10 - 30 \text{ }^{\circ}\text{C}$

Riasztás:	1 x malfunctioning, 4 x 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
Validation:	Automatic; frequency freely programmable
Védettségi osztály:	Protection class: Analyser cabinet: IP44 / Panel PC: IP65

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