



## **EZ5005 Total Hardness + Total / Free Alkalinity Analyser, 1 stream, Modbus RS485**

**Kat. číslo produktu:** EZ5005.99001C02

**CZK Cena:** Kontaktujte nás

**Datum dodání na vyžádání**

### **Online, automatic titration of Total Hardness + Total Alkalinity + Free Alkalinity in water monitoring applications**

The EZ5000 Series are state of the art titrators built on an industrial analytical platform run by AppliTek's proprietary controller-database software. High precision micropumps 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.

Each and every application starts with the basics: the right titrimetric technique in function of the parameter(s) 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, or a combination of techniques run sequentially in two analysis cycles.

Similar to the single-parameter EZ4000 Series, the EZ5000 Series combines an unparalleled expertise in online titration with a set of unique analysis, control and communication features in a compact footprint:

- Unique flexibility in titration methods
- Multi-parameter analysis
- Smart automatic features
- Control and communication via industrial panel PC
- Standard 4 - 20 mA signal output with alarm processing
- Communication supporting Ethernet connectivity to Modbus TCP/IP
- Multiple stream analysis

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

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### **Technické údaje**

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Certifikace:	CE compliant / UL certified
Digitální výstupy:	Modbus 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>
Hmotnost:	25 kg
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interference :	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.
Kalibrace:	N.A.
Materiál:	Hinged part: Thermoform ABS, door: plexiglass  Wall section: Galvanised steel, powder coated
Metoda měření:	Acid-base titration (alkalinity only); Calmagite EDTA titration with LED dipping probe (combined)
Mez detekce:	≤ 10 mg/L
Napájení:	110 - 220 VAC, 2 A, 50/60Hz  Max. power consumption: 150 VA  Other voltages available on request
Odtok:	Atmospheric pressure, vented, min. Ø 64 mm
Okolní teplota:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Parametr:	Hardness, total; Alkalinity, total; Alkalinity, free
Počet proudů vzorku:	1 stream  Optional:  1 to 8 streams
Požadavky na vzorek:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Přesnost:	Better than 2% full scale range for standard test solutions
Průtoková rychlost:	100 - 300 mL/min
Reagent Requirements:	Keep between 10 - 30 °C
Rozměry (V x Š x H):	690 mm x 465 mm x 330 mm
Rozsah měření:	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>

Teplota vzorku:

10 - 30 °C

Tlak vzorku:

By external overflow vessel

Třída ochrany:

Analyser cabinet: IP55 / Panel PC: IP65

Validation:

Automatic; frequency freely programmable

Výstup:

Modbus RS485

Optional:

Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs

RS232, Modbus TCP/IP

Záruka:

2 roky