



Be Right™



EZ1304 Total Hardness + Calcium Analyser, 1 stream, Modbus RS485

제품 번호: EZ1304.99001C02

KRW 가격: Hach에 문의

Online colorimetric analysis of Total Hardness + Calcium in water

EZ1000 Total Hardness + Calcium Analysers achieve excellent precision and accuracy. At the heart of the colorimeter there is a compact photometer assembly developed especially for the EZ Series. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length. The limit of detection is in the low $\mu\text{g/L}$ range.

Results you can rely on

Smart automatic features for calibration, validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximised uptime and negligible operator intervention. Precision micropumps dose all reagents. 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 Total Hardness + Calcium 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.

사양

간섭:

Calmagite/EDTA method: Some metal ions interfere by causing fading or indistinct end points or by stoichiometric consumption of EDTA.

HNB method: dissolved Copper $\text{Cu(II)} > 2 \text{ mg/L}$, Iron $\text{Fe(II)} > 20 \text{ mg/L}$, Manganese $> 10 \text{ mg/L}$, Zinc $> 5 \text{ mg/L}$, Lead $> 5 \text{ mg/L}$, Aluminium $> 5 \text{ mg/L}$ and Tin Sn(IV) interfere. Orthophosphate precipitates Calcium at the pH of the test. Strontium and Barium give a positive interference and alkalinity in excess of 300 mg/L may cause an indistinct end point in hard waters.

Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.

검출 하한(LOD):	≤ 2.5 µg/L CaCO ₃
경보:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
계측용 공기:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
교정:	Automatic, 2-point; frequency freely programmable
디지털 출력:	Modbus RS485
무게:	25 kg
배수:	Atmospheric pressure, vented, min. Ø 64 mm
범위:	TH/Ca: 0 - 1 mg/L CaCO ₃
	Optional:
	0 - 0.1 mg/L
	0 - 0.25 mg/L
	0 - 0.5 mg/L
	0 - 4 mg/L (with internal dilution)
	0 - 8 mg/L (with internal dilution)
	0 - 100 mg/L (with internal dilution)
보증:	2 years
보호 등급:	Analyser cabinet: IP55 / Panel PC: IP66
사이클 타임:	10 min (dilution + 5 min.) per parameter
시료 스트림 수:	1 stream
시료 압력:	By external overflow vessel
시료 온도:	10 - 30 °C
시료 유속:	100 - 300 mL/min
시료 품질:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
시약 요구 사항:	Keep between 10 - 30 °C
유효성 검사:	Automatic; frequency freely programmable
인증:	CE compliant / UL certified
재료:	Hinged part: Thermoform ABS, door: plexiglass
	Wall section: galvanised steel, powder coated
전력:	110 - 240 VAC, 4 A, 50/60 Hz
	Max. power consumption: 150 VA
접지:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
정밀도:	Better than 2% full scale range for standard test solutions
주위 온도:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
출력:	Modbus RS485
	Optional: max. 8 active 4 - 20 mA max. 500 Ohm load outputs, RS232, Modbus TCP/IP
측정 방법:	Total Hardness: colorimetric measurement at 610 nm using calmagite/EDTA
	Calcium Hardness: colorimetric measurement at 610 nm using hydroxynaphthol blue/EDTA
치수(H x W x D):	690 mm x 465 mm x 330 mm
항목:	Total Hardness, Calcium