EZ1016sc Total Hardness Analyser

Product #:	**EZ1016.XXXXXXXT**
AED Price:	Contact Hach

Online colorimetric analysis of Total Hardness in water

EZ1000 Total Hardness 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 µg/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 invervention. The consumption of reagents is monitored through automatic counters, signalling the need of replacement. 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.

The system has standard Claros connection enabled, which allows for remote monitoring, operating and troubleshooting.

Flexibility that meets your needs

EZ Series Total Hardness Analysers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated digital SC controller. 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.

- Analog 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.

Specifications

Alarm:	Malfunction, maintenance, analyser busy
Ambient temperature:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Analogue outputs:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Automatic cleaning:	Yes
Calibration:	Automatic, 2-point; frequency freely programmable

Certifications:	CE compliant / ETL certified
Cycle Time:	10 min (dilution + 5 min.)
Demineralised water:	For rinsing / dilution
Detection limit:	≤ 2.5 µg/L $CaCO_3$
Digital outputs:	Optional: Modbus (TCP/IP, RTU/RS485), Profinet, Profibus DP, Ethernet/IP
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 32 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²
Flow rate:	100 - 300 mL/min
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Some metal ions interfere by causing fading or indistinct end points or by stoichiometric consumption of EDTA. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Material:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: galvanised steel, powder coated
Measurement method:	Colorimetric measurement at 610 nm using calmagite/EDTA
Measuring range:	0,05 - 1 mg/L CaCO3
	Optional (with internal dilution):
	0,025 - 0,25 mg/L
	0,025 - 0,5 mg/L
	0,5 - 10 mg/L
	1,25 - 25 mg/L
	2,5 - 50 mg/L
	3,75 - 75 mg/L
	5,0 - 100 mg/L
Method:	Colorimetric
Model:	EZ1016sc
Number of sample streams:	1, 2, 4, or 8
Parameter:	Total Hardness
Power:	100 - 240 VAC, 50/60 Hz
	Max. power consumption: 120 VA
Precision:	Better than 2% full scale range for standard test solutions
Protection class:	IP44
Reagent Requirements:	Keep between 10 - 30 °C
Sample pressure:	By external overflow vessel
Sample quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample temperature:	10 - 30 °C
Validation:	Automatic; frequency freely programmable
Warranty:	24 months
Weight:	25 kg