EZ2002 Total Copper Analyser

Product #:   **EZ2002.XXXXXXXX**

ZAR Price: Contact Hach

Online colorimetric analysis of Total Copper in water

EZ2000 Total Copper 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.

EZ2000 Total Copper Analysers have an internal digestion unit. This additional step prior to analysis allows to measure non-soluble or complexed metal species.

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. 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 Copper 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.

Specifications

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
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)
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified

Cycle Time:	20 minutes Total Cu (dilution + 5 min.)
	30 minutes Total Cu & Cu(II)
Demineralised water:	For rinsing / dilution
Digital outputs:	Optional: Modbus (TCP/IP, RS485)
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
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferences:	Acidity, metal ions like aluminium (III) > 10 mg/L, cyanide, hardness, iron (III) > 10 mg/L, nickel (II) and silver (II). Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Lower Limit of Detection (LOD):	≤ 3 µg/L
Material:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Measurement method:	Colorimetric measurement at 546 nm using bicinchoninate method, conform with USEPA Method 8506
Measuring range:	0.03 - 3 mg/L Cu
	Optional:
	0.003 - 0.3 mg/L
	0.02 - 0.75 mg/L
	0.02 - 1.5 mg/L
	0.2 - 12 mg/L (with internal dilution)
	0.5 - 30 mg/L (with internal dilution)
	3 - 60 mg/L (with internal dilution)
Number of sample streams:	1, 2, 4 or 8
Parameter:	Copper, total
Power:	230 VAC, 50/60 Hz
	120 VAC, 50/60 Hz
	Max. power consumption: 440 VA
Precision:	Better than 2% full scale range for standard test solutions
Protection Class:	Protection class: Analyser cabinet: IP44 / Panel PC: IP65
Range:	0.03 - 3 mg/L Cu
Reagent requirements:	Keep between 10 - 30 °C
Sample Flow Rate:	100 - 300 mL/min
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:	12 months
Weight:	25 kg

What's included?: EZ2002 Copper Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, and 3 x empty 2.5L Reagent Containers (for Acid 1M, Acid 0.25M & Colour Solution)

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