



## EZ2003 Total Manganese Analyser

Kat. číslo produktu: **EZ2003.XXXXXXXXXX**  
CZK Cena bez DPH: Kontaktujte nás

### Online colorimetric analysis of Total Manganese in water

EZ2000 Total Manganese 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.

EZ2000 Total Manganese 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 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 Manganese 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.

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### Technické údaje

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Analogové výstupy:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Certifikace:	CE compliant / UL certified
Demineralised water:	For rinsing / dilution
Digitální výstupy:	Optional: Modbus (TCP/IP, RS485)

Doba cyklu :	20 min Total Mn (dilution + 5 min)
	30 min Total Mn & Mn (II)
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 :	Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Jaký je obsah balení:	EZ2003 Manganese Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 4 x empty 2.5L Reagent Containers with Fittings (for Acid, Reductor, Buffer, Colour & Mixed Reagent Solution) and 1 x empty 10L Reagent Container with Fittings (for EDTA Solution)
Kalibrace:	Automatic, 2-point; frequency freely programmable
Materiál:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Metoda měření:	Colorimetric measurement using formaldoxime method at 450 nm
Mez detekce:	≤ 4 µg/L
Napájení:	230 VAC, 50/60 Hz
	120 VAC, 50/60 Hz
	Max. power consumption: 440 VA
Odtok:	Atmospheric pressure, vented, min. Ø 32 mm
Okolní teplota:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Parametr:	Manganese, total
Počet proudů vzorku:	1, 2, 4 or 8
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:	0.02 - 1 mg/L Mn
	Optional:
	0.004 - 0.1 mg/L
	0.01 - 0.25 mg/L
	0.01 - 0.5 mg/L
	0.16 - 4 mg/L (with internal dilution)
	0.32 - 10 mg/L (with internal dilution)
	2 - 20 mg/L (with internal dilution)
Teplota vzorku:	10 - 30 °C
Tlak vzorku:	By external overflow vessel
Třída ochrany:	Protection class: Analyser cabinet: IP44 / Panel PC: IP65
Validation:	Automatic; frequency freely programmable
Záruka:	24 měsíců

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