



## **EZ1024 Iron Analyser Fe(II+III)**

**Kat. číslo produktu:** EZ1024.XXXXXXXXXX  
**EUR Cena bez DPH:** Kontaktujte nás

### **Online colorimetric analysis of total dissolved Iron Fe(II+III) in water**

EZ1000 Iron 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 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 Iron 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**

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|-----------------------|---------------------------------------------------------------------------------------|
| Alarm:                | 1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts |
| Analógové výstupy:    | Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)                       |
| Automatické čistenie: | Áno                                                                                   |
| Č. prúdov vzoriek:    | 1, 2, 4, or 8                                                                         |
| Certifikácia:         | CE compliant / ETL certified                                                          |
| Demineralised water:  | For rinsing / dilution                                                                |
| Detekčný limit:       | ≤ 2 µg/L                                                                              |
| Digitálne výstupy:    | Optional: Modbus (TCP/IP, RS485)                                                      |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Doba cyklu :              | 10 min Fe (II), Fe total dissolved (dilution + 5 min.)                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                           | 15 min all combined parameters                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Earth connection:         | Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                    |
| Hmotnosť:                 | 25 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Instrument air:           | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air                                                                                                                                                                                                                                                                                                                                                                                     |
| Interferencie:            | Metal ions like Lead > 10 mg/L, Zinc > 2 mg/L, Nickel > 2 mg/L, Iron > 5 mg/L, Copper > 5 mg/L. Strong oxidising agents, Cyanide, Nitrite, Phosphate (polyphosphate more than orthophosphate), Chromium, Zinc in concentrations exceeding 10 times that of Iron. Bismuth, Cadmium, Mercury, Molybdate, and Silver precipitate Phenanthroline. Polyphosphate must be absent. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar. |
| Kalibrácia:               | Automatic, 2-point; frequency freely programmable                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Kvalita vzorky:           | Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU                                                                                                                                                                                                                                                                                                                                                                                                            |
| Materiál:                 | Hinged part: Thermoform ABS, door: PMMA                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                           | Wall section: Galvanised steel, powder coated                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Metóda merania:           | Colorimetric measurement using TPTZ colour solution, conform with APHA 3500-Fe (B)                                                                                                                                                                                                                                                                                                                                                                                     |
| Model:                    | EZ1024                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Napájanie:                | 100 - 240 VAC, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                           | Max. power consumption: 120 VA                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Obsah balenia:            | EZ1024 Iron Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 2 x empty 5L Reagent Container with Fittings (for Buffer & Reductor Solution) and 1 x empty 2.5L Glass Reagent Container with Fittings (for Colour Solution)                                                                                                                                                                                                                 |
| Odtok:                    | Atmospheric pressure, vented, min. Ø 32 mm                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Parameter:                | Iron Fe(II+III), total dissolved                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Presnosť:                 | Better than 2% full scale range for standard test solutions                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reagent Requirements:     | Keep between 10 - 30 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rozmery (V x Š x H):      | 690 mm x 465 mm x 330 mm                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Rozsah merania:           | 0.01 - 1 mg/L Fe(II)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                           | Optional:                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                           | 0.005 - 0.25 mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                           | 0.005 - 0.5 mg/L                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                           | 0.08 - 4 mg/L (with internal dilution)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                           | 0.16 - 8 mg/L (with internal dilution)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                           | 2 - 100 mg/L (with internal dilution)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Rýchlosť prietoku vzorky: | 100 - 300 mL/min                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Teplota prostredia:       | 10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                              |
| Teplota vzorky:           | 5 - 30 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Trieda ochrany:           | Protection class: Analyser cabinet: IP44 / Panel PC: IP65                                                                                                                                                                                                                                                                                                                                                                                                              |
| Validation:               | Automatic; frequency freely programmable                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Vzorka: tlak:             | By external overflow vessel                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Záruka:                   | 24 mesiacov                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Zdroj napájania:          | 100 - 240 VAC, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Obsah balenia

EZ1024 Iron Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 2 x empty 5L Reagent Container with Fittings (for Buffer & Reductor Solution) and 1 x empty 2.5L Glass Reagent Container with Fittings (for Colour Solution)