



Be Right™



## EZ1024 Iron Analyser Fe(II+III), 1 stream, Modbus RS485

Product #: EZ1024.99001C02

GBP Price: Contact Us

Call for ship date

### 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  $\mu\text{g/L}$  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 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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### Specifications

Alarm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Ambient temperature:	10 - 30 °C $\pm$ 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Calibration:	Automatic, 2-point; frequency freely programmable
Certifications:	CE compliant / UL certified
Cycle time:	10 min Fe (II), Fe total dissolved (dilution + 5 min.) 15 min all combined parameters
Detection limit:	$\leq$ 5 $\mu\text{g/L}$

Digital outputs:	Modbus RS485
Dimensions (H x W x D):	690 mm x 465 mm x 330 mm
Drain:	Atmospheric pressure, vented, min. Ø 64 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>
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:	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, pil, proteins,surfactants and tar.
Material:	Hinged part: Thermoform ABS, door: plexiglass  Wall section: Galvanised steel, powder coated
Measurement method:	Colorimetric measurement using TPTZ colour solution, conform with APHA 3500-Fe (B)
Measuring range:	0 - 1 mg/L Fe(II)  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)
Number of sample streams:	1 stream  Optional: 1 to 8 streams
Output:	Modbus RS485  Optional: Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs  RS232, Modbus TCP/IP
Parameter:	Iron Fe(II+III), total dissolved
Power:	110 - 220 VAC, 2 A, 50/60Hz  Max. power consumption: 150 VA  Other voltages available on request
Precision:	Better than 2% full scale range for standard test solutions
Protection class:	Analyser cabinet: IP55 / Panel PC: IP65
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:

2 years

Weight:

25 kg