



EZ2306 Total Iron + Total Dissolved Iron Fe(II+III) + Iron Fe(II) + Iron Fe(III) Analyser, 1 stream, Modbus RS485



Product #: EZ2308.990A1C02

GBP Price: Contact Us
Call for ship date

Online colorimetric analysis of Total Iron + Total Dissolved Iron Fe(II+III) + Dissolved Iron Fe(II) + Iron Fe(III) in water

EZ2000 Total 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.

EZ2000 Total Iron 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 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.

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
Cooling water:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Cycle time:	20 min Total Fe (dilution + 5 min)

	30 min Total Fe & Fe (II); Fe (II+III)
	40 min Total Fe & Fe (II+III) & Fe (II) & Fe (III)
Detection limit:	≤ 5 µg/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 ²
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, oil, 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
	Optional:
	0 - 0.1 mg/L
	0 - 0.25 mg/L
	0 - 0.5 mg/L
	0 - 4 mg/L (with internal dilution)
	0 - 10 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, total; Fe(II+III), total dissolved; Fe(II), dissolved; Fe(III), dissolved
Power:	220 VAC / 50 Hz
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