



## **EZ1301 Nitrate + Nitrite Analyser**

**Kat. číslo produktu:** EZ1301.XXXXXXXXXX  
**CZK Cena bez DPH:** Kontaktujte nás

### **Online colorimetric analysis of Nitrate + Nitrite in water**

EZ1000 Nitrate + Nitrite 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 Nitrate + Nitrite 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.

---

### **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)                       |
| Automatické čištění: | Ano                                                                                   |
| Certifikace:         | CE compliant / ETL certified                                                          |
| Demineralised water: | For rinsing / dilution                                                                |
| Digitální výstupy:   | Optional: Modbus (TCP/IP, RS485)                                                      |
| Doba cyklu :         | 10 min per parameter                                                                  |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 :        | Ions like Antimony Sb(III), Bismuth, Chloroplatinate, Gold, Iron Fe(III), Lead, Mercury, Metavanadate, Silver can precipitate with Nitrate. Presence of Copper Cu(II) may decompose the diazonium salt which results in a low result. Strong oxidizing agents. Tricloramine results in a false red colour. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar. |
| Jaký je obsah balení: | EZ1301 Nitrite, Nitrate Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets and empty Containers for Reagents with Fittings                                                                                                                                                                                                                                                  |
| Kalibrace:            | Automatic, 2-point; frequency freely programmable                                                                                                                                                                                                                                                                                                                                                     |
| Materiál:             | Hinged part: Thermoform ABS, door: PMMA                                                                                                                                                                                                                                                                                                                                                               |
| Metoda měření:        | Wall section: galvanised steel, powder coated<br>Colorimetric measurement at 546 nm using NEDD, conform with standard method ASTM 4500-NO3-A                                                                                                                                                                                                                                                          |
| Mez detekce:          | $\leq 0.2 \text{ mg/L NO}_3\text{-N}$<br>$\leq 0.1 \text{ mg/L NO}_2\text{-N}$                                                                                                                                                                                                                                                                                                                        |
| Napájení:             | 100 - 240 VAC, 50/60 Hz<br>Max. power consumption: 120 VA                                                                                                                                                                                                                                                                                                                                             |
| Odtok:                | Atmospheric pressure, vented, min. Ø 32 mm                                                                                                                                                                                                                                                                                                                                                            |
| Okolní teplota:       | 10 - 30 °C $\pm$ 4 °C deviation at 5 - 95% relative humidity (non-condensing)                                                                                                                                                                                                                                                                                                                         |
| Parametr:             | Nitrate, Nitrite                                                                                                                                                                                                                                                                                                                                                                                      |
| 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 3% full scale range for standard test solutions                                                                                                                                                                                                                                                                                                                                           |
| Přístroj:             | EZ1301                                                                                                                                                                                                                                                                                                                                                                                                |
| 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:        | 0.2 - 10 mg/L NO <sub>3</sub> -N<br>0.1 - 5 mg/L NO <sub>2</sub> -N                                                                                                                                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                                                             |
| Zdroj napájení:       | 100 - 240 VAC, 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                               |

## Jaký je obsah balení

EZ1301 Nitrite, Nitrate Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets and empty Containers for Reagents with Fittings