



## EZ7750 Total Nitrogen, Nitrate, Nitrite Analyser

**Termékszám:** EZ7750.XXXXXXXX  
**HUF Ár (nettó):** Elérhetőségünk

### Online, automatic monitoring of Total Nitrogen (TN) in wastewater and general water applications

The EZ7700 Series of Online TN Analysers meet the needs for fast, convenient and reliable monitoring of the regulatory sum parameter Total Nitrogen in wastewater and surface water applications.

Ammonia, nitrate and nitrite are three key nitrogen species that play an important role in decomposition of organic material in water and biological water treatment in particular. While data on individual levels of these provide operators of WWTP's insight in the biochemical processes, other organic and inorganic forms of nitrogen may also be of significance. Total Kjeldahl Nitrogen (TKN) was originally developed as a measure of organic nitrogen but in practice it was often considered as synonymous with Total Nitrogen (TN) due to the lack of other available technologies. Still today, TN is often confused with TKN.

The EZ7700 Series of Online TN Analysers were developed in the framework of a research project to provide operators and utilities a viable alternative for the complex and time-consuming TKN method. TN as measured by the EZ7700 comprises all components, organic and inorganic, of the nitrogen cycle by the analyser's proprietary sample digestion technique, now available in an industrial mainframe with a compact footprint:

- Full oxidation of all nitrogen species
- Smart automatic features
- Control and communication via industrial panel PC
- Standard 4 - 20 mA signal output with alarm processing
- Communication supporting Ethernet connectivity to Modbus TCP/IP
- Multiple stream analysis

There are many additional options available. Please contact Hach for more details.

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### Műszaki adatok

A doboz tartalma:

EZ7750 Total Nitrogen/Nitrate/Nitrite Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 2 x empty 2.5L Reagent Container 2.5L with Fittings (Sulfamic Acid & Buffer Solution), 2 x empty 5L Reagent Containers with Fittings (Oxidation B & Reductor Solution), 1 x empty 10L Reagent Container with Fittings (Oxidation A Solution) and 1 x empty 2.5L Glass Reagent Container with Fittings (Colour Solution)

Analóg kimenetek:

Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)

Anyag:

Hinged part: Thermoform ABS, door: PMMA

	Wall section: Galvanised steel, powder coated
Automatikus tisztítás:	Igen
Cooling water:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Demineralised water:	For rinsing
Detektálási határ:	TN: ≤ 0.75 mg/L  NO <sub>3</sub> -N: ≤ 0.125 mg/L  NO <sub>2</sub> -N: ≤ 0.05 mg/L  Optional: Modbus (TCP/IP, RS485)
Digitális kimenetek:	
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>
Garancia:	24 hónap
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Interferenciák:	Antimony (III), Bismuth (III), Chloroplatinate, Gold (III), Iron (III), Lead (II), Mercury (II), Metavanadate, and Silver (I) can precipitate with Nitrate. The presence of Copper (II) may decompose the diazonium salt which results in a low result. Strong oxidising agents. NCl <sub>3</sub> results in a false red colour. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Kalibrálás:	Automatic, 2-point; frequency freely programmable
Környezeti hőmérséklet:	10 - 30 °C, ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Lefolyócső:	Atmospheric pressure, vented, min. Ø 32 mm
Mérés módszer:	Colorimetric measurement at 546 nm using hydrazine reduction and NEDD colour solution after persulphate digestion in alkaline medium, conform with APHA 4500-N
Méréstartomány:	TN: 0.75 - 10 mg/L; NO <sub>3</sub> -N: 0.125 - 10 mg/L; NO <sub>2</sub> -N: 0.05 - 5 mg/L
Méretek (MxSZxM):	690 mm x 465 mm x 330 mm
Minta hőmérséklet:	10 - 30 °C
Minta minőség:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Minta: nyomás:	By external overflow vessel
Mintaáram:	100 - 300 mL/min
Mintacellák:	30 min including digestion of 10 min (standard)
Mintautak száma:	1, 2, 4, or 8
Paraméter:	Total Nitrogen (TN), Nitrate, Nitrite
Pontosság:	Better than 3% full scale range for standard test solutions
Reagent Requirements:	Keep between 10 - 30 °C
Riasztás:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Súly:	25 kg
Tanúsítványok:	CE compliant / UL certified
Teljesítmény:	230 VAC, 50/60 Hz  120 VAC, 50/60 Hz  Max. power consumption: 440 VA
Típus:	EZ7750
Validation:	Automatic; frequency freely programmable
Védettségi osztály:	Analyser cabinet: IP55 / Panel PC: IP65

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