



## EZ7700 Total Nitrogen Analyser

Ürün Numarası: EZ7700.XXXXXXXX  
TRY Fiyat: Bize Ulaşın

### 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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### Teknik özellikler

Ağırlık:	25 kg
Akış Hızı:	100 - 300 mL/min
Alarm :	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Analog çıkışlar:	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Boyut (Y x G x D):	690 mm x 465 mm x 330 mm
Cihaz havası:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air

Demineralize su:	For rinsing
Dijital çıkışlar:	Optional: Modbus (TCP/IP, RS485)
Doğrulama:	Automatic; frequency freely programmable
Doğruluk:	Better than 3% full scale range for standard test solutions
Drenaj:	Atmospheric pressure, vented, min. Ø 32 mm
Enerji:	230 VAC, 50/60 Hz
	120 VAC, 50/60 Hz
	Max. power consumption: 440 VA
Garanti:	24 aylar
Girişimler:	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. $\text{NCl}_3$ results in a false red colour. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Kalibrasyon:	Automatic, 2-point; frequency freely programmable
Koruma sınıfı:	Analyser cabinet: IP55 / Panel PC: IP65
Kutudakiler:	EZ7700 Total Nitrogen Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 1 x empty 2.5L Reagent Container with Fittings (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)
Malzeme:	Hinged part: Thermoform ABS, door: PMMA
	Wall section: Galvanised steel, powder coated
Model:	EZ7700
Numune akışı sayısı:	1, 2, 4, or 8
Numune basıncı:	By external overflow vessel
Numune kalitesi:	Maximum particle size 100 $\mu\text{m}$ , < 0.1 g/L; Turbidity < 50 NTU
Numune sıcaklığı:	10 - 30 °C
Ölçüm aralığı:	0.1 - 2 mg/L TN
Ölçüm metodu:	Colorimetric measurement at 546 nm using hydrazine reduction and NEDD colour solution after persulphate digestion in alkaline medium, conform with APHA 4500-N
Ölçüm süresi:	30 min including digestion of 10 min (standard)
Ortam sıcaklığı:	10 - 30 °C, $\pm$ 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Otomatik temizleme:	Evet
Parametre:	Total Nitrogen (TN)
Reaktif gereksinimi:	Keep between 10 - 30 °C
Saptama limiti:	$\leq$ 100 $\mu\text{g/L}$
Sertifikalar:	CE compliant / UL certified
Soğutma suyu:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Toprak bağlantısı:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>

## Kutudakiler

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