



Be Right™



EZ7601 Total Nitrogen + Total Phosphorus Analyser, 1 stream, Modbus RS485

Produktnr: EZ7601.990A1C02

SEK Pris: Kontakta oss

Ring för leveransdatum

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

Similar to the EZ7700 and EZ7800 Series, the EZ7600 Series of Total TN + TP Analysers assure fast, convenient and reliable monitoring of both nutrient sum parameters Total Nitrogen and Total Phosphorus in wastewater and surface water applications.

Traditionally, compliance of waste water effluent with local discharge regulations is assessed by a number of wellknown nutrient parameters, such as nitrate (NO_3^-) and soluble phosphate (PO_4^{3-}) concentrations. However, the dynamic nature of nitrogen speciation and phosphorus fractions in treated waste waters and natural waters cannot be underestimated as it may contribute significantly to the total nutrient load of the water body. In addition to regulatory compliance of nutrient levels, online monitoring of either TN or TP may provide deeper insight into the biochemical processes of water treatment operations.

The EZ7600 Series use an analytical mainframe specifically developed for the combined, automatic measurement of Total N and P in water samples. Key to this measurement is the use of AppliTek's proprietary sample digestion technique and a new spectrometer with low drift and excellent signal-to-noise ratio:

- Combined measurement of all nitrogen components and complexed phosphate
- Compact high-performance spectrometer
- 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.

Specifikationer

Antal provströmmar:	1 stream
Certifieringar :	CE compliant / UL certified
Cooling water:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Cykeltid:	80 min including digestion of 60 min (standard)

Demineralised water:	For rinsing purposes
Detektionsgräns:	TN: $\leq 100 \mu\text{g/L}$ TP: $\leq 20 \mu\text{g/L}$
Digital outputs:	Modbus RS485
Dimension (H x B x D):	690 mm x 465 mm x 330 mm
Dränering:	Atmospheric pressure, vented, min. $\varnothing 64 \text{ mm}$
Earth connection:	Dry and clean earth pole with low impedance ($< 1 \text{ Ohm}$) using an earth cable of $> 2.5 \text{ mm}^2$
Garanti :	2 år
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Kalibrering:	Automatic, 2-point; frequency freely programmable
Larm:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Material:	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated
Mätmetod:	TN: UV photometric measurement at 220 nm after persulphate digestion in alkaline medium, conform with APHA 4500-NO ₃ (B) TP: Colorimetric measurement at 630 nm using ascorbic acid reduction and molybdate colour solution after persulphate digestion in acidic medium, conform with APHA 4500-P
Matningsspänning:	220 VAC, 2 A, 50Hz Max. power consumption: 150 VA
Mätområde:	TN: 0.1-5 mg/L TP: 0.02-2 mg/L
Omgivningstemperatur:	10 - 30 °C, $\pm 4 \text{ °C}$ deviation at 5 - 95% relative humidity (non-condensing)
Parameter:	Nitrogen, total; Phosphorus, total
Precision:	Better than 4% (TN) and 2% (TP) full scale range for standard test solutions
Prov: tryck:	By external overflow vessel
Provflödes hastighet:	100 - 300 mL/min
Provkvalitet:	Maximum particle size 100 μm , $< 0.1 \text{ g/L}$; Turbidity $< 50 \text{ NTU}$
Provtemperatur:	10 - 30 °C
Reagent Requirements:	Keep between 10 - 30 °C
Skyddsklass:	Analyser cabinet: IP55 / Panel PC: IP65
Störningar:	TN: Dissolved organic matter, surfactants, Nitrite, and Chromium (VI) interfere. Various inorganic substances not normally found in natural water, such as Chlorite and Chlorate, may interfere. Turbidity can be compensated by 0.45 μm filtration. TP: Arsenicum (V), Chromium (VI), Copper (II) $> 10 \text{ mg/L}$, Iron (III) $> 10 \text{ mg/L}$, Sulphide $> 2 \text{ mg/L}$, and Vanadium (V), Silica $> 60 \text{ mg/L}$. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Utgång :	Modbus RS485 Optional: Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs RS232, Modbus TCP/IP
Validation:	Automatic; frequency freely programmable
Vikt :	25 kg