



Be Right™



EZ7851, Total Phosphorus / Phosphate Analyser, 1 stream, Modbus RS485

제품 번호: EZ7851.990B1C02
KRW 가격: Hach에 문의

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

The EZ7800 Series of Online TP Analysers meet the needs for fast, convenient and reliable monitoring of the regulatory sum parameter Total Phosphorus in municipal and industrial wastewater as well as surface water applications. The EZ7800 Series share similar technology with the EZ7700 Series which monitor Total Nitrogen.

Phosphorus is often synonymous with phosphate but can be present in different forms: orthophosphate (O-phosphate), condensed phosphate (polyphosphate) or organically bonded phosphate. O-phosphate is often the only form that is measured with traditional test kits or even in laboratory, yet the organic form of phosphate can be an important constituent of industrial discharges, often deriving from corrosion control programs or use of fertilisers. In summary, knowing levels of TP can be an important added value to waste water operations.

The EZ7800 Online Total Phosphorus Analyser allows operators of industrial and municipal water works to monitor and control in a convenient way the total portion of phosphorous, if needed combined with a free phosphate measurement. The analyser's industrial mainframe harnesses a proprietary sample digestion technique combined with a proprietary sample digestion technique combined with seamless operation:

- Full oxidation of all complexed phosphate
- 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.

사양

Demineralsed water:	For rinsing purposes
간섭:	Arsenicum (V), Chromium (VI), Copper (II) > 10 mg/L, Iron (III) > 10 mg/L, Sulphide > 2 mg/L, and Vanadium (V), Silica > 60 mg/L. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
검출 하한(LOD):	TP: ≤ 25 µg/L PO4-P: ≤ 5 µg/L
경보:	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts

계측용 공기:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
교정:	Automatic, 2-point; frequency freely programmable
냉각수:	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
디지털 출력:	Modbus RS485
무게:	25 kg
배수:	Atmospheric pressure, vented, min. Ø 64 mm
범위:	TP: 0.025 - 5 mg/L TP; PO ₄ -P: 0.005 - 1 mg/L
보증:	2 years
보호 등급:	Analyser cabinet: IP55 / Panel PC: IP65
사이클 타임:	30 min including digestion of 10 min (standard)
시료 스트림 수:	1 stream
시료 압력:	By external overflow vessel
시료 온도:	10 - 30 °C
시료 유속:	100 - 300 mL/min
시료 품질:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
시약 요구 사항:	Keep between 10 - 30 °C
유효성 검사:	Automatic; frequency freely programmable
인증:	CE compliant / UL certified
재료:	Hinged part: Thermoform ABS, door: plexiglass
	Wall section: Galvanised steel, powder coated
전력:	110 VAC, 2 A, 60 Hz
	Max. power consumption : 150 VA
접지:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²
정밀도:	Better than 2% full scale range for standard test solutions
주위 온도:	10 - 30 °C, ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
출력:	Modbus RS485
	Optional:
	Active 4 - 20 mA max. 500 Ohm load, 1 to 8 outputs
	RS232, Modbus TCP/IP
측정 방법:	Colorimetric measurement at 630 nm using ascorbic acid reduction and molybdate colour solution after persulphate digestion in acidic medium, conform with APHA 4500-P
치수(H x W x D):	690 mm x 465 mm x 330 mm
항목:	Phosphorus, total;
	Phosphate PO ₄ -P