



Be Right™



## EZ2729sc Total Nitrogen Colorimetric Analyser, 1 stream, 4x mA Output

**Product #:** EZ2729.97VB140T

**AED Price:** Contact Hach

### Reliable, Scalable Systems Designed for Peak Performance

The EZ2729sc Total Nitrogen Analyser with the SC4500 Controller provides accurate, reliable nitrogen analysis for water. Designed for industrial and wastewater applications, it helps tackle inefficiencies and meet regulations, giving you better process control. Its user-friendly design ensures easy integration and dependable performance, making it a valuable tool for optimizing workflows.

#### Key Features

#### Flexible Customisation

The EZ2729sc Total Nitrogen Analyser is built to adapt to the unique needs of your plant. It comes standard with 1 stream and 4x mA outputs but can be configured to handle up to 8 streams and 8x mA outputs, ensuring flexibility for more complex processes. Advanced connectivity options, including Modbus RTU, Modbus TCP/IP, Profibus DP, and Ethernet/IP, make integration with existing systems seamless, allowing you to efficiently monitor and optimise operations.

#### Reliable and Easy to Use

Precision and reliability are at the core of the EZ2729sc. Built for demanding industrial applications, it delivers consistent, high-accuracy measurements with minimal maintenance needs. The user-centric design simplifies operation, reducing training time and ensuring smooth daily usage. Its robust construction guarantees long-term performance, even in challenging environments.

#### Explore Tailored Solutions

Every facility has distinct nitrogen monitoring requirements, and the EZ2729sc Total Nitrogen Analyser is built to meet them effectively. Contact us today to discover how this customisable solution can enhance your operations, streamline your workflows, and help you achieve compliance. Together, we'll design a configuration that's perfect for your needs.

#### Trusted Equipment for Critical Operations

The EZ sc Series combines robust engineering with high-quality materials to ensure reliability 24/7. Designed for long-term performance, EZ sc Series minimises breakdowns and supports sustained operational success.

#### Scalable Solutions for Growing Needs

Built to evolve alongside your needs, online analysers from the EZ sc Series offer adaptable parameters and easier integration. They ensure your facility remains future proof without requiring expensive upgrades. Easily adjust parameter testing ranges and expand sample streams to accommodate innovation and growth.

#### Real-Time Data for Faster Decisions

The EZ sc Series offers advanced connectivity and real-time monitoring, delivering immediate access to actionable insights. Facilities utilising this technology benefit from improved reaction times, empowering more informed decision-making and quicker responses during critical situations.

### **Simplified Troubleshooting with Expert Support**

Built-in diagnostics combined with secure remote data access make the EZ sc Series simplify issue resolution. Supported by a highly responsive team of experts, it ensures uninterrupted functionality and minimises operational downtime. By addressing and identifying issues early, EZ sc Series of online analysers helps prevent costly disruptions and repairs while maintaining system efficiency.

### **Clear Workflows for Predictable Outcomes**

Standardised tools and guided workflows ensure consistent implementation and operation. The EZ sc Series minimises miscommunication, sets clear expectations, and reduces process inconsistencies, driving greater efficiency.

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## **Specifications**

Ambient temperature:	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Analogue outputs:	Active 0 - 20 mA (or 4 - 20 mA) max. 500 Ohm load, standard 4, optional: 8
Automatic cleaning:	Yes; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Calibration:	Automatic; 2-point; offset or slope; Frequency freely programmable: 6 hours, 12 hours, daily, weekly. Note: manufacturer recommends that a calibration is done when the reagents are replaced
Certifications:	CE, ETL certified to UL and CSA safety standards, UKCA
Cycle Time:	Default: 45 min.  Continuous: 36 min.
Demineralised water:	Internal dilution option: Rinse water and Dilution water
Detection limit:	0.25 - 10 mg/L TN: 0.25 mg/L  0.5 - 20 mg/L TN: 0.5 mg/L  1.25 - 50 mg/L TN: 1.25 mg/L  2.5 - 100 mg/L TN: 2.5 mg/L
Digital outputs:	Profibus DP or Modbus RTU
Dimensions (H x W x D):	688 mm x 460 mm x 340 mm
Drain:	Atmospheric pressure, vented, min. Ø 32 mm
Earth connection:	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>
Flow rate:	100 - 300 mL/min
Instrument air:	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air. Used to flush the instrument in corrosive environment. Min. 0.2 bar - Max. 0.5 bar
Interferences:	Ions, e.g., antimony (III) (Sb <sup>3+</sup> ), bismuth (III) (Bi <sup>3+</sup> ), chloroplatinate (PtCl <sub>6</sub> <sup>2-</sup> ), gold (III) (Au <sup>3+</sup> ), iron  (III) (Fe <sup>3+</sup> ), lead (II) (Pb <sup>2+</sup> ), mercury (II) (Hg <sup>2+</sup> ), metavanadate (VO <sub>3</sub> <sup>-</sup> ) and silver (I) (Ag <sup>+</sup> ) can cause  precipitation with nitrate. Copper (Cu <sup>2+</sup> ) ions can decompose the diazonium salt and cause a low result. NCl <sub>3</sub> can cause a red color. Strong oxidizing agents interfere.  Large quantities of color and turbidity interfere. Fats, oil, proteins, surfactants and tar interfere.
Material:	Hinged part: Thermoform ABS, door: PMMA  Wall section: Galvanised steel, powder coated
Measurement method:	NEDD colorimetric method after reduction with hydrazine
Measuring range:	Internal Dilution

	0.25 - 10 mg/L TN
	0.5 - 20 mg/L TN
	1.25 - 50 mg/L TN
	2.5 - 100 mg/L TN
Model:	EZ2729sc
Number of sample streams:	Standard: 1
	Optional accessory for 2, 4, or 8 sample streams
Output:	Optional: Claros Ethernet connection and Modbus TCP/IP Ethernet connector; LAN version; 10/100 Mbps or Profinet or Ethernet IP
Parameter:	Nitrogen, Total
Power:	230 VAC, 50/60 Hz
	120 VAC, 50/60 Hz
	Max. power consumption: 240 VA
Precision:	Better than 4% full scale range for standard test solutions
Protection class:	IP44
Reagent Requirements:	Keep reducing and colour solution refrigerated: 10 - 15 °C, all other reagents between 10 - 30 °C
Relays:	5 contacts, not user configurable: Malfunction, maintenance, analysis ready, sample ready, sample ready (EZ9150)
Sample pressure:	By external overflow vessel (open to atmospheric pressure)
Sample quality:	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU
Sample temperature:	10 - 30 °C
Validation:	Automatic; Frequency freely programmable: 6 hours, 12 hours, daily, weekly
Warranty:	24 months
Weight:	Max. 35 kg