

EZ sc Series Colorimetric Nitrite and Nitrate Analyzer -EZ1028sc and EZ1029sc

Applications

- Wastewater
- Drinking Water
- Power Generation
- Process/Production Water
- Surface Water



Online colorimetric analysis of Nitrate + Nitrite in water

The EZ sc Series of online analyzers delivers robust, efficient, and future-ready solutions for facilities striving to maximize operational uptime and meet evolving demands. Engineered with precision and backed by expert support, EZ sc systems integrate flexibility, providing durable performance, intuitive tools, and the ability to scale, all while minimizing downtime and maintenance requirements.

Trusted Equipment for Critical Operations

The EZ sc Series combines robust engineering with highquality materials to ensure reliability 24/7. Designed for longterm performance, EZ sc Series minimizes breakdowns and supports sustained operational success.

Scalable Solutions for Growing Needs

Built to evolve alongside your needs, online analyzers 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 utilizing 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 minimizes operational downtime. By addressing and identifying issues early, EZ sc Series of online analyzers helps prevent costly disruptions and repairs while maintaining system efficiency

Clear Workflows for Predictable Outcomes

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

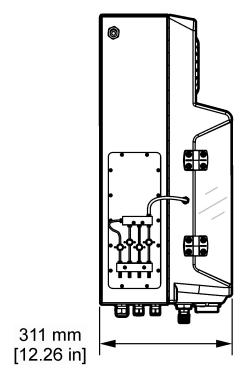
Technical Data*

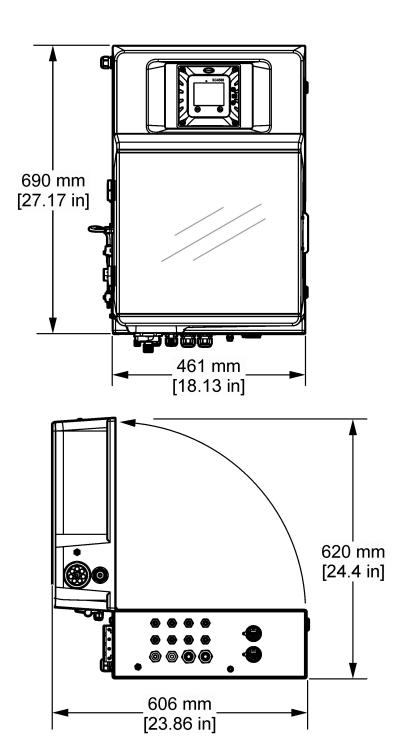
Model	EZ1028sc	EZ1029sc				
Parameter	Nitrite	Nitrate				
Measurement Method	Colorimetric measurement at 546 nm using NEDD, conform with standard method ASTM 4500-NO2-A					
Range	$0.001 - 0.1 \ \mathrm{mg/L\ NO_2-N}$ $0.005 - 0.5 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$ $0.010 - 1.0 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$ $0.025 - 2.5 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$ $0.05 - 5.0 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$ $0.075 - 7.5 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$ $0.1 - 10.0 \ \mathrm{mg/L\ NO_2-N} \ (\mathrm{with\ internal\ dilution})$	0.2 - 10 mg/L NO ₃ -N				
Precision	Better than 2% full scale range for standard test solutions	Better than 2% full scale range for standard test solutions				
Lower Limit of Detection (LOD)	≤1 µg/L	≤ 0.2 mg/L				
Cycle Time	10 min (dilution + 5 min)	10 min				
Interferences	Large amounts of color and turbidity inter	rfere. Fats, oil, proteins, surfactants and tar.				
Automatic cleaning	Yes					
Calibration	Automatic, 2-point; frequency freely programmable					
Validation	Automatic; frequency freely programmable					
Ambient Temperature	10 - 30 °C \pm 4 °C deviation at 5 - 95% relative humidity (non-condensing)					
Reagent Requirements	Keep between 5 - 20 °C (41 - 68 °F) in use					
Sample Pressure	By external overflow vessel					
Sample Flow Rate	100 - 300 mL/min					
Sample Temperature	10 - 30 °C (50 - 86 °F)					
Sample Quality	Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU					
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA					
Instrument Air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air					
Demineralized Water	When needed for rinsing / dilution					
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 ²					
Analog Outputs	Active 4 - 20 mA max. 500 Ohm load, standard 4, max. 8 (option)					
Digital Outputs	None Optional: Modbus (TCP/IP, RTU), Profinet, Profibus DP, Ethernet IP					
Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts					
Protection Class	IP44					
Material	Hinged part: Thermoform ABS, door: PMMA Wall section: Galvanised steel, powder coated					
Dimensions (H x W x D)	688 mm x 460 mm x 340 mm					
Weight	40 kg (88 lbs.)					
Certifications	CE compliant / ETL certified					

*Subject to change without notice.



Dimensions





Enable the Benefits of Smart Monitoring

This instrument connects to Claros, Hach's innovative Water Intelligence System. Claros allows you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiencies in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

Hach Service Protects Your Investment

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.



Order Information - Part Number Configurator

Nitrite: EZ1028.97 Nitrate: EZ1029.97	х	x	x	x	х
Measurement range					
0.001 - 0.1 mg/L NO ₂ -N (EZ1028sc)	0				
0.2 - 10 mg/L NO ₃ -N (EZ1029sc)					
EZ1028sc:					
0.005 - 0.5 mg/L NO ₂ -N (with internal dilution)	V				
0.010 - 1.0 mg/L NO ₂ -N (with internal dilution)					
0.025 - 2.5 mg/L NO ₂ -N (with internal dilution)					
$0.05 - 5.0 \text{ mg/L NO}_2$ -N (with internal dilution) $0.075 - 7.5 \text{ mg/L NO}_2$ -N (with internal dilution)					
0.073 - 7.5 Hig/L NO ₂ -N (with internal dilution)					
o					
Power supply					
100 - 240 VAC, 50/60 Hz		0			
Number of sample streams			1		
1 stream			I		
Outputs					
4x mA				4	
8x mA				8	
4x mA + Modbus RTU				D -	
8x mA + Modbus RTU 4x mA + Modbus TCP/IP				E I	
8x mA + Modbus TCP/IP				J	
4x mA + Profinet				N	
8x mA + Profinet				0	
4x mA + Profibus DP				S	
8x mA + Profibus DP 4x mA + Ethernet/IP				T X	
4x mA + Ethernet/IP 8x mA + Ethernet/IP				Υ	
S				,	
No adaption, "SC4500" version					ОТ
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Accessories

APPAZ0080002 - Moduplex, 2 streams, Pinch Valve, 1/8" OD APPAZ0080004 - Moduplex, 4 streams, Pinch Valve, 1/8" OD APPAZ0080008 - Moduplex, 8 streams, Pinch Valve, 1/8" OD



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