EZ sc Series Phosphate Analyzers - EZ1031sc, EZ1032sc and EZ2732sc

Reliable, Scalable Systems Designed for Peak Performance

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 high-quality materials to ensure reliability 24/7. Designed for long-term 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
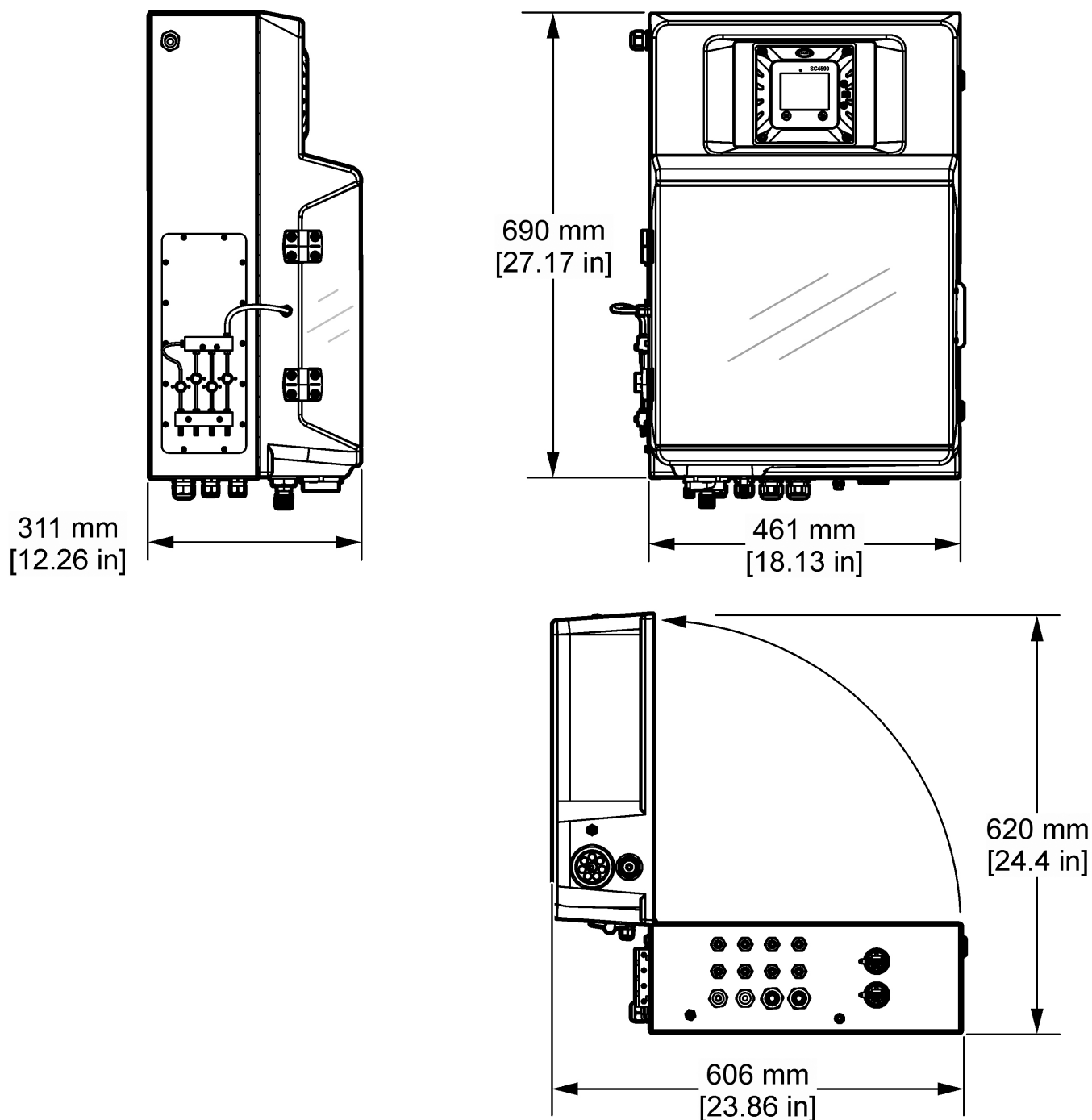
Clear Workflows for Predictable Outcomes

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	EZ1031sc	EZ1032sc	EZ2732sc
Parameter	Orthophosphate (PO_4-P)	Phosphate (molybdate blue)	Phosphorus, total
Range	0.02 - 1 mg/L PO_4-P 0.05 - 2.5 mg/L PO_4-P 0.05 - 5 mg/L PO_4-P 0.1 - 10 mg/L PO_4-P 0.5 - 50 mg/L PO_4-P (with internal dilution) 1.0 - 100 mg/L PO_4-P (with internal dilution) 2.5 -250 mg/L PO_4-P (with internal dilution) 5.0 -500 mg/L PO_4-P (with internal dilution) 7.5 -750 mg/L PO_4-P (with internal dilution) 10 -1000 mg/L PO_4-P (with internal dilution)	0.001 - 0.1 mg/L PO_4-P 0.003 - 0.25 mg/L PO_4-P 0.003 - 0.5 mg/L PO_4-P 0.005 - 1 mg/L PO_4-P 0.025 - 5 mg/L PO_4-P (with internal dilution) 0.050 - 10 mg/L PO_4-P (with internal dilution) 0.125 - 25 mg/L PO_4-P (with internal dilution) 0.250 - 50 mg/L PO_4-P (with internal dilution) 0.375 - 75 mg/L PO_4-P (with internal dilution) 0.500 - 100 mg/L PO_4-P (with internal dilution)	0.005 - 1 mg/L PO_4-P 0.025 - 5 mg/L PO_4-P (with internal dilution) 0.05 - 10 mg/L PO_4-P (with internal dilution) 0.125 - 25 mg/L PO_4-P (with internal dilution) 0.25 - 50 mg/L PO_4-P (with internal dilution)
Lower Limit of Detection (LOD)	≤ 20 µg/L	≤ 1 µg/L	≤ 0.005 mg/L
Cycle Time	10 min (dilution + 5 min)	10 min (dilution + 5 min)	Standard measurement cycle time for TP: 30 minutes
Measurement Method	Colorimetric measurement using vanadate yellow method (450 nm)	Molybdate blue method (630 nm), conform with APHA 4500-P (C) and (E)	Colorimetric measurement at 700 nm using ascorbic acid reduction and molybdate color solution after persulfate digestion in acidic medium, conform with APHA 4500-P
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	220 VAC, 50/60 Hz 110 VAC, 50/60 Hz Max. power consumption: 240 VA
Precision	Better than 2% full scale range for standard test solutions		
Interferences	Large amounts of color and turbidity interfere. 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 ± 4 °C deviation (50 - 86 °F ± 7.2 °F deviation) at 5 - 95% relative humidity (non-condensing)		
Reagent Requirements	Keep between 5 - 20 °C (41 - 68 °F) in use		
Sample Temperature	10 - 30 °C (50 - 86 °F)		
Sample Pressure	By external overflow vessel		
Sample Flow Rate	100 - 300 mL/min		
Sample Quality	Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU		
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 mm²		
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: galvanized 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.

HACH®

Dimensions

311 mm
[12.26 in]

690 mm
[27.17 in]

461 mm
[18.13 in]

620 mm
[24.4 in]

606 mm
[23.86 in]

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

Vanadate Yellow: EZ1031.97 Molybdate Blue: EZ1032.97	X	X	X	X	X
Measurement range					
0.02 - 1 mg/L PO_4-P	0				
0.05 - 2.5 mg/L PO_4-P					
0.05 - 5 mg/L PO_4-P					
0.1 - 10 mg/L PO_4-P					
0.5 - 50 mg/L PO_4-P (with internal dilution)	V				
1.0 - 100 mg/L PO_4-P (with internal dilution)					
2.5 -250 mg/L PO_4-P (with internal dilution)					
5.0 -500 mg/L PO_4-P (with internal dilution)					
7.5 -750 mg/L PO_4-P (with internal dilution)					
10 -1000 mg/L PO_4-P (with internal dilution)					
Power supply					
100 - 240 VAC, 50/60 Hz		0			
Number of sample streams					
1 stream			1		
Outputs					
4x mA				4	
8x mA				8	
4x mA + Modbus RTU				D	
8x mA + Modbus RTU				E	
4x mA + Modbus TCP/IP				I	
8x mA + Modbus TCP/IP				J	
4x mA + Profinet				N	
8x mA + Profinet				O	
4x mA + Profibus DP				S	
8x mA + Profibus DP				T	
4x mA + Ethernet/IP				X	
8x mA + Ethernet/IP				Y	
No adaption, "SC4500" version					0T

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

HACH®

Order Information

EZ2732.97	X	X	X	X	X
Measurement range					
0.005 - 1 mg/L PO_4-P	0				
0.025 - 5 mg/L PO_4-P (with internal dilution)	V				
0.05 - 10 mg/L PO_4-P (with internal dilution)					
0.125 - 25 mg/L PO_4-P (with internal dilution)					
0.25 - 50 mg/L PO_4-P (with internal dilution)					
Power supply					
220 VAC, 50/60 Hz		A			
110 VAC, 50/60 Hz		B			
Max. power consumption: 240 VA					
Number of sample streams					
1 stream			1		
Outputs					
4x mA				4	
8x mA				8	
4x mA + Modbus RTU				D	
8x mA + Modbus RTU				E	
4x mA + Modbus TCP/IP				I	
8x mA + Modbus TCP/IP				J	
4x mA + Profinet				N	
8x mA + Profinet				O	
4x mA + Profibus DP				S	
8x mA + Profibus DP				T	
4x mA + Ethernet/IP				X	
8x mA + Ethernet/IP				Y	
No adaption, "SC4500" version					0T

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