EZ sc Series Sulphate Analysers - EZ1036sc

Reliable, Scalable Systems Designed for Peak Performance

The EZ sc Series of online analysers delivers robust, efficient, and future-ready solutions for facilities striving to maximise 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 minimising 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 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
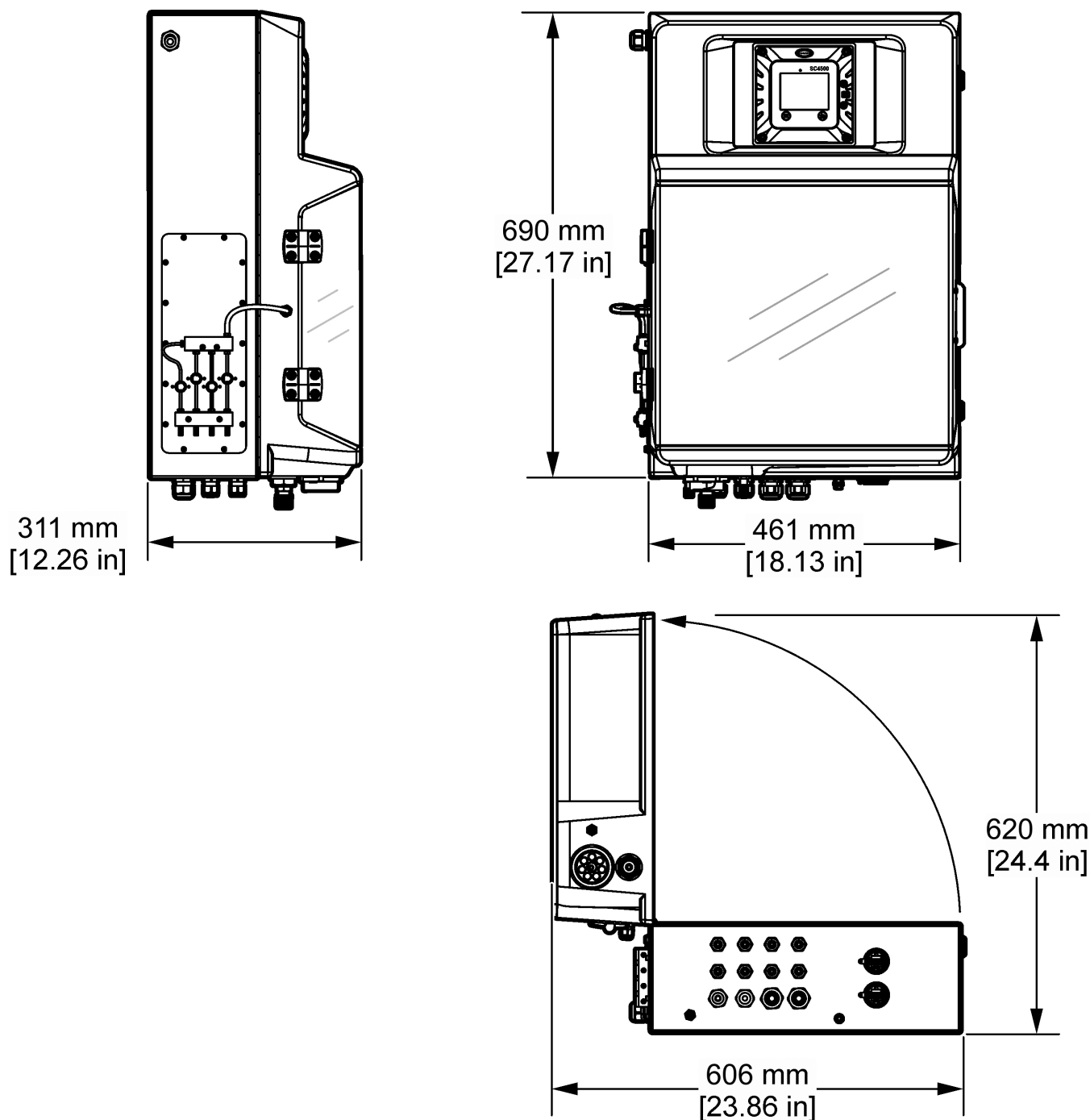
Clear Workflows for Predictable Outcomes

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.

Technical Data*

Model	EZ1036sc
Parameter	Sulphate
Measurement method	Colorimetric measurement of turbidity at 450 nm after barium precipitation, conform with standard methods EPA 375.4 and APHA 4500-SO4
Measuring range	5 - 40 mg/L 25 - 200 mg/L (with internal dilution) 50 - 400 mg/L (with internal dilution) 125 - 1000 mg/L (with internal dilution) 250 - 2000 mg/L (with internal dilution) 375 - 3000 mg/L (with internal dilution) 500 - 4000 mg/L (with internal dilution)
Precision	Better than 3% full scale range for standard test solutions
Detection limit	≤ 10 mg/L
Interferences	Other metals that form complexes with EDTA. Silica > 500 mg/L, organic matter in water. Suspended or colloidal organic matter also may interfere with the endpoint. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar.
Cycle time	10 minutes (dilution + 5 min)
Automatic cleaning	Yes
Calibration	Automatic, 2-point; frequency freely programmable
Validation	Automatic; frequency freely programmable
Ambient temperature	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)
Reagent requirements	Keep between 10 - 30 °C
Sample pressure	By external overflow vessel
Flow rate	100 - 300 mL/min
Sample temperature	10 - 30 °C
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
Demineralised water	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
Analogue outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Digital outputs	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
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 maximise instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

HACH®

Order Information - Part Number Configurator

EZ1036.98	X	X	X	X	X
Measurement range					
5 - 40 mg/L	0				
25 - 200 mg/L (with internal dilution)	V				
50 - 400 mg/L (with internal dilution)					
125 - 1000 mg/L (with internal dilution)					
250 - 2000 mg/L (with internal dilution)					
375 - 3000 mg/L (with internal dilution)					
500 - 4000 mg/L (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 + Profinet DP				S	
8x mA + Profinet 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