



EZ sc Series Manganese Analysers - EZ1025sc and EZ2725sc

Applications

- Wastewater
- Drinking Water
- Power Generation
- Surface Water



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

High-quality materials and robust engineering come together in the EZ sc Series to provide 24/7 reliability. Designed for long-term performance, it reduces breakdowns and ensures consistent operational success. Equipped with advanced Manganese monitoring, the EZ sc Series accurately analyses Dissolved Manganese to 0.002 mg/L and Total Manganese to 0.004 mg/L. This helps maintain compliance with drinking water standards and prevents issues like staining and corrosion.

Real-Time Data for Faster Decisions

Advanced connectivity and real-time monitoring provide immediate access to actionable insights. Facilities equipped with EZ sc Series of online analysers, experience improvement in reaction times, enabling better decision-making and quicker response during critical conditions. Additionally, comprehensive manganese analysis, including Mn(II), total manganese helps facilities monitor water quality at intake points and maintain efficiency as water conditions change seasonally.

Simplified Troubleshooting with Expert Support

Built-in diagnostics and secure remote data access streamline and enhance issue resolution in the EZ sc Series. Backed by a highly responsive team of experts, it reduces operational downtime and ensures peak functionality. By identifying and resolving issues early, it helps maintain system efficiency and prevents costly downtime and repairs. It also proactively addresses industrial challenges such as corrosion and heat exchanger degradation caused by Manganese buildup.

Clear Workflows for Predictable Outcomes

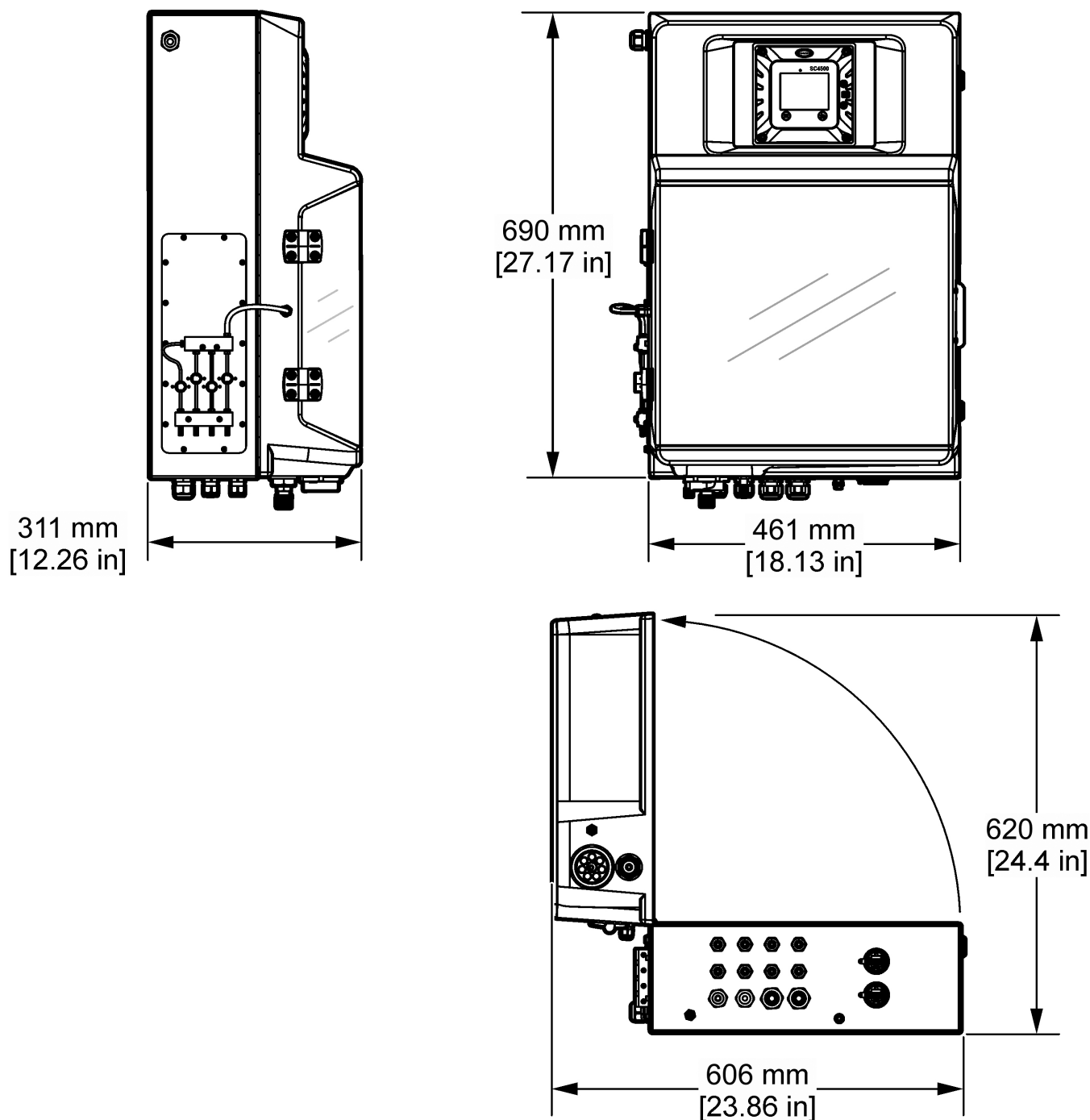
The EZ sc Series simplifies implementation and operation by using standardised tools and guided workflows to ensure consistency throughout. By reducing miscommunication and establishing clear expectations, it helps eliminate process inconsistencies, promoting greater efficiency and reliability.

Technical Data*

Model	EZ1025sc	EZ2725sc
Parameter	Manganese Mn(II), dissolved	Manganese, total
Measuring range	0.002 - 0.1 mg/L 0.005 - 0.25 mg/L 0.005 - 0.5 mg/L 0.01 - 1 mg/L 0.05 - 5 mg/L (with internal dilution) 0.1 - 10 mg/L (with internal dilution) 0.25 - 25 mg/L (with internal dilution) 0.5 - 50 mg/L (with internal dilution) 0.75 - 75 mg/L (with internal dilution) 1 - 100 mg/L (with internal dilution)	0.02 - 1 mg/L Mn 0.004 - 0.1 mg/L 0.01 - 0.25 mg/L 0.01 - 0.5 mg/L 0.1 - 5 mg/L (with internal dilution) 0.2 - 10 mg/L (with internal dilution) 0.5 - 25 mg/L (with internal dilution)
Detection limit	≤ 2 µg/L	≤ 4 µg/L
Cycle time	10 min (dilution + 5 min)	20 min Total Mn (dilution + 5 min)
Measurement method	Colorimetric measurement at 465 nm, conform with standard method ASTM 2120 B	Colorimetric measurement using formaldoxime method at 450 nm
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	220 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 240 VA
Precision	Better than 2% full scale range for standard test solutions	
Interferences	Large amounts of colour 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 at 5 - 95% relative humidity (non-condensing)	
Reagent requirements	Keep between 5 - 20 °C in use	
Sample temperature	10 - 30 °C	
Sample pressure	By external overflow vessel	
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	
Demineralised 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	
Analogue 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	
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 maximise instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

Order Information

EZ1025.98	X	X	X	X	X
Measurement range					
0.002 - 0.1 mg/L	0				
0.005 - 0.25 mg/L					
0.005 - 0.5 mg/L					
0.01 - 1 mg/L					
0.05 - 5 mg/L (with internal dilution)	V				
0.1 - 10 mg/L (with internal dilution)					
0.25 - 25 mg/L (with internal dilution)					
0.5 - 50 mg/L (with internal dilution)					
0.75 - 75 mg/L (with internal dilution)					
1 - 100 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 + Profibus DP				S	
8x mA + Profibus DP				T	
4x mA + Ethernet/IP				X	
8x mA + Ethernet/IP				Y	
No adaption, "SC4500" version					OT

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

Order Information

EZ2725.98	X	X	X	X	X
Measurement range					
0.004 - 0.1 mg/L	0				
0.01 - 0.25 mg/L					
0.01 - 0.5 mg/L					
0.02 - 1 mg/L					
0.1 - 5 mg/L (with internal dilution)	V				
0.2 - 10 mg/L (with internal dilution)					
0.5 - 25 mg/L (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					OT

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

