EZ sc Series Copper Analysers - EZ1010sc and EZ2710sc

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

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

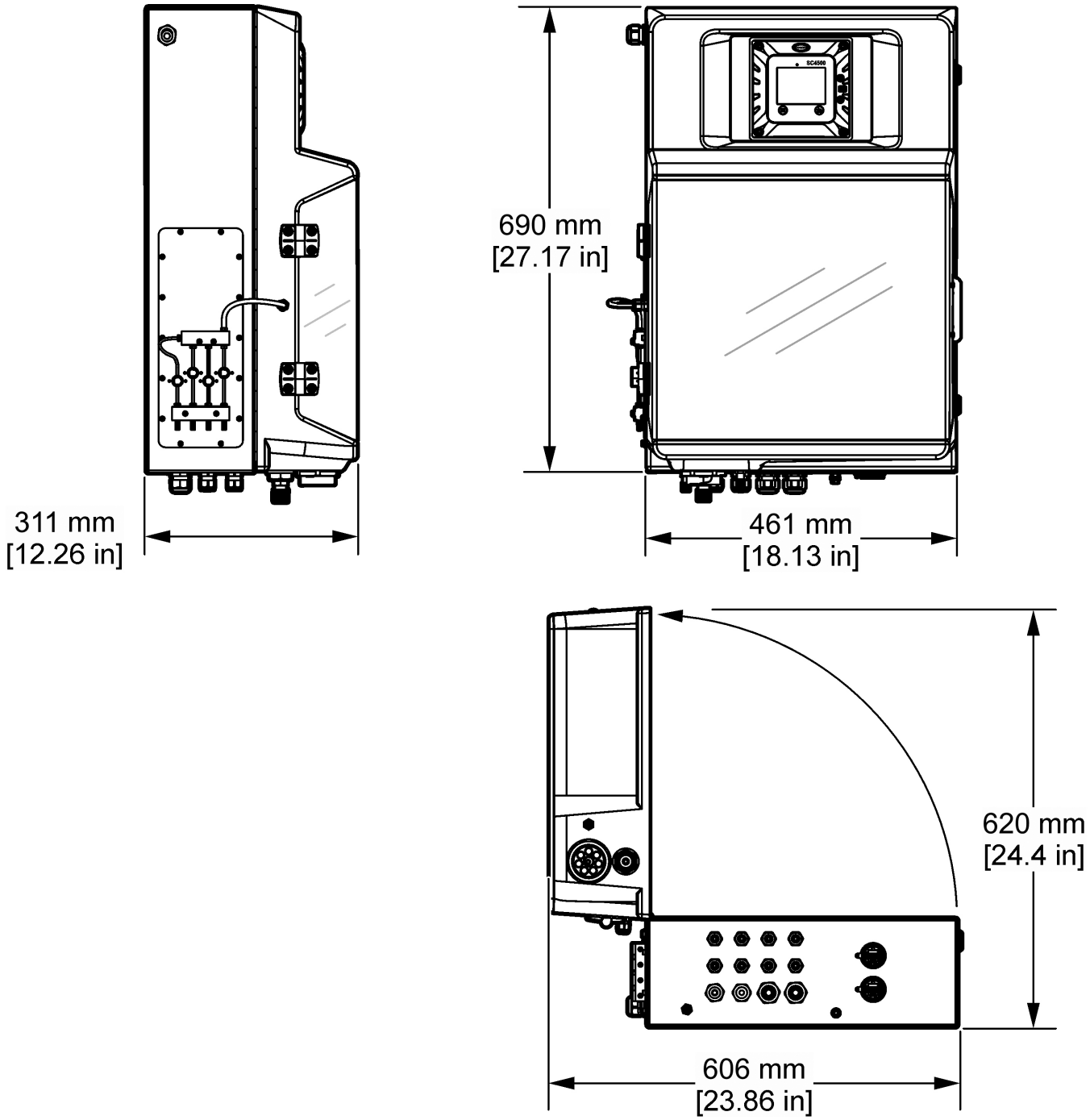
Standardised tools and guided workflows ensure consistent implementation and operation. The EZ sc Series minimises miscommunication, sets clear expectations, and reduces process inconsistencies, driving greater efficiency.

Technical Data*

Model	EZ1010sc	EZ2710sc
Parameter	Copper, dissolved	Copper, total
Measuring range	0.003 - 0.3 mg/L 0.02 - 0.75 mg/L 0.02 - 1.5 mg/L 0.03 - 3 mg/L 0.15 - 15 mg/L (with internal dilution) 0.3 - 30 mg/L (with internal dilution) 0.75 - 75 mg/L (with internal dilution) 1.5 - 150 mg/L (with internal dilution) 2.25 - 225 mg/L (with internal dilution) 3 - 300 mg/L(with internal dilution)	0.003 - 0.3 mg/L 0.02 - 0.75 mg/L 0.02 - 1.5 mg/L 0.03 - 3 mg/L 0.15 - 15 mg/L (with internal dilution) 0.3 - 30 mg/L (with internal dilution) 0.75 - 75 mg/L (with internal dilution)
Detection limit	≤ 3 µg/L	≤ 3 µg/L
Cycle time	10 min (dilution + 5 min)	20 minutes Total Cu (dilution + 5 min.) 30 minutes Total Cu & Cu(II)
Measurement method	Colorimetric measurement at 546 nm using bicinchoninate method; conform respectively with USEPA Method 8506 and standard method APHA 3500-Cu (C)	Colorimetric measurement at 546 nm using bicinchoninate method, conform with USEPA Method 8506
Sample temperature	10 - 30 °C	10 - 30 °C
Power	100 - 240 VAC, 50/60 Hz Max. power consumption: 120 VA	230 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	Acidity, metal ions like Aluminium (III) > 10 mg/L, Cyanide, Hardness, Iron (III) > 10 mg/L, Nickel (II) and Silver (II). 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 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	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	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

EZ1010.98	X	X	X	X	X
Measurement range					
0.003 - 0.3 mg/L	0				
0.02 - 0.75 mg/L					
0.02 - 1.5 mg/L					
0.03 - 3 mg/L					
0.15 - 15 mg/L (with internal dilution)	V				
0.3 - 30 mg/L (with internal dilution)					
0.75 - 75 mg/L (with internal dilution)					
1.5 - 150 mg/L (with internal dilution)					
2.25 - 225 mg/L (with internal dilution)					
3 - 300 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

Order Information

EZ2710.98	X	X	X	X	X
Measurement range					
0.003 - 0.3 mg/L	0				
0.02 - 0.75 mg/L					
0.02 - 1.5 mg/L					
0.03 - 3 mg/L					
0.15 - 15 mg/L (with internal dilution)	V				
0.3 - 30 mg/L (with internal dilution)					
0.75 - 75 mg/L (with internal dilution)					
Power supply					
230 VAC, 50/60 Hz		A			
120 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