EZ sc Series Series Online Colorimetric Hydrogen Peroxide Analyser - EZ1022sc

Applications

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



Online Hydrogen Peroxide Monitoring for Confident Process Control

Hydrogen peroxide is a powerful oxidant used across water treatment and industrial processes, including semiconductor manufacturing. Accurate online measurement helps operators control dosing and verify low residuals where H_2O_2 must be removed. The Hach™ EZ1022sc Hydrogen Peroxide Analyser provides sensitive colorimetric measurement across a broad concentration range, supporting advanced oxidation, semiconductor water and wastewater treatment, water-quality protection, and confident process decisions

Measure Low Residuals with Confidence

Sensitive DPD colorimetry with detection down to 2 µg/L helps identify low-level H_2O_2 trends and residuals. Reliable low-range measurement supports water-quality protection, treatment verification, semiconductor water and wastewater applications, and processes where confirming effective peroxide monitoring is critical.

Automatic Calibration for Stable, Repeatable Measurement

Automatic calibration helps maintain measurement stability without frequent manual adjustment. Reliable, repeatable data supports consistent H_2O_2 control across changing process conditions and reduces the operator effort needed to maintain measurement performance.

Real-Time Data for Faster Process Control

Configurable analog and digital outputs integrate H_2O_2 measurement data directly into your treatment control system. Immediate process visibility supports faster responses to changing conditions and helps optimise dosing while maintaining control of discharge residuals.

Build Confidence into Every Measurement

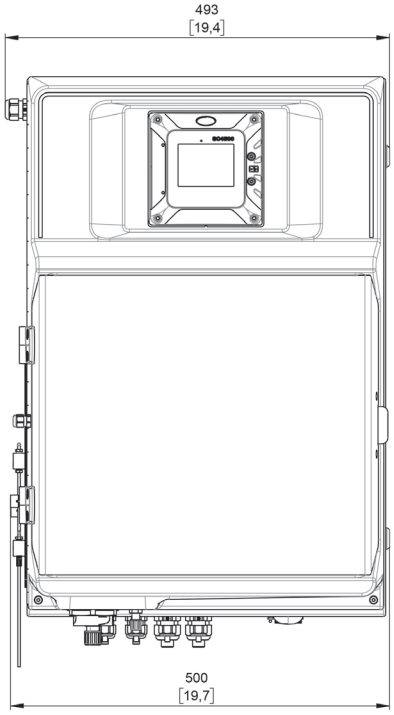
Hach ready-to-use reagents reduce preparation steps and operator variability. Automatic two-point calibration, validation, cleaning, reagent priming, and photometer checks further standardize workflows, reducing operator dependency while supporting consistent H_2O_2 measurement and proactive maintenance.

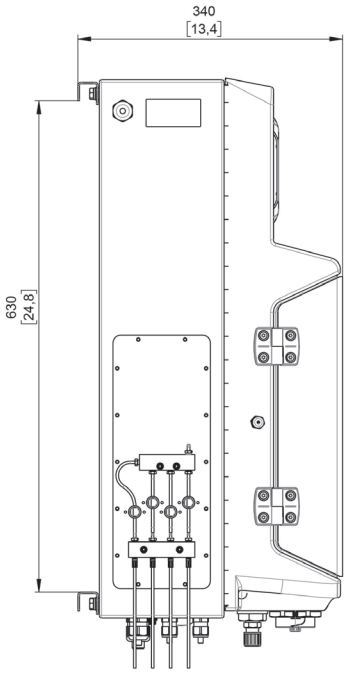
Technical Data*

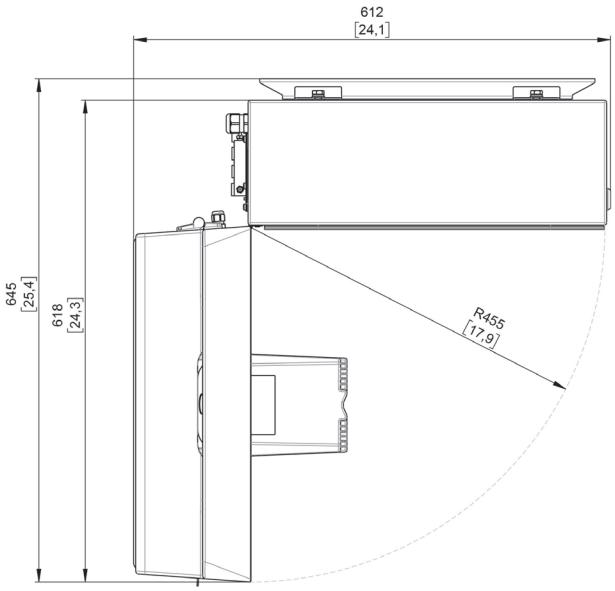
Model	EZ1022sc	
Parameter	Hydrogen Peroxide	
Measurement method	DPD Colorimetric	
Measuring range	No Dilution 0.002 - 0.125 mg/L H_2O_2 0.002 - 0.250 mg/L H_2O_2 0.005 - 0.5 mg/L H_2O_2	Internal Dilution 0.025 - 2.5 mg/L H_2O_2 0.05 - 5 mg/L H_2O_2 0.125 - 12.5 mg/L H_2O_2 0.25 - 25 mg/L H_2O_2 0.375 - 37.5 mg/L H_2O_2 0.5 - 50 mg/L H_2O_2
Detection limit	No Dilution 0.002 - 0.125 mg/L H_2O_2: 0.002 mg/L 0.002 - 0.250 mg/L H_2O_2: 0.002 mg/L 0.005 - 0.5 mg/L H_2O_2: 0.005 mg/L	Internal Dilution 0.025 - 2.5 mg/L H_2O_2: 0.025 mg/L 0.05 - 5 mg/L H_2O_2: 0.05 mg/L 0.125 - 12.5 mg/L H_2O_2: 0.125 mg/L 0.25 - 25 mg/L H_2O_2: 0.25 mg/L 0.375 - 37.5 mg/L H_2O_2: 0.375 mg/L 0.5 - 50 mg/L H_2O_2: 0.5 mg/L
Precision	Better than 3% of full scale at: 0.002 - 0.125 mg/L H_2O_2 0.002 - 0.250 mg/L H_2O_2 Better than 2% of full scale for standard test solutions.	
Interferences	Oxidants, e.g., bromine (Br_2), bromamine, chlorine (Cl_2), copper (II) (Cu^{2+}) > 8 mg/L, chromate (CrO_4^{2-}), iodine (I_2), iodoamines, iron (III) (Fe^{3+}) > 20 mg/L, nitrite (NO_2^-), ozone (O_3) and manganese can oxidize the DPD colour solution. Large quantities of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar interfere.	
Cycle time	No Dilution Default: 10 min. Continuous: 6 min. Internal Dilution: Default: 15 min. Continuous: 9 min.	
Automatic cleaning	Yes; Frequency freely programmable: 6 hours, 12 hours, daily, weekly	
Calibration	Automatic; 2-point; offset or slope; Frequency freely programmable: 6 hours, 12 hours, daily, weekly. Note: manufacturer recommends that a calibration is done when the reagents are replaced	
Validation	Automatic; Frequency freely programmable: 6 hours, 12 hours, daily, weekly	
Ambient temperature	10 - 30 °C ± 4 °C deviation at 5 - 95% relative humidity (non-condensing)	
Reagent requirements	Keep buffer solution between 10 - 30 °C and color solution between 10 - 15 °C	
Sample pressure	By external overflow vessel (open to atmospheric pressure)	
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. Used to flush the instrument in corrosive environement. Min. 0.2 bar - Max. 0.5 bar	
Demineralised water	Internal dilution option: Rinse water and Dilution water	
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 0 - 20 mA (or 4 - 20 mA) max. 500 Ohm load, standard 4, optional: 8	
Digital outputs	Optional: Modbus (TCP/IP, RTU), Profinet, Profibus DP, Ethernet IP	
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	Max. 35 kg	
Certifications	CE, ETL certified to UL and CSA safety standards, UKCA	

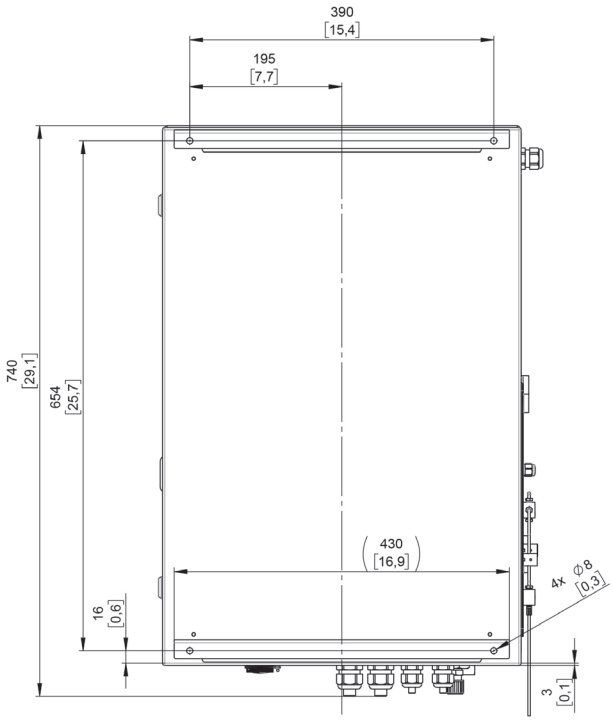
**Subject to change without notice.*

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 - Part Number Configurator

EZ1022.98	X	X	X	X	X
Measurement range					
0.002 - 0.125 mg/L H_2O_2	0				
0.002 - 0.250 mg/L H_2O_2					
0.005 - 0.5 mg/L H_2O_2					
0.025 - 2.5 mg/L (with internal dilution)	V				
0.05 - 5 mg/L (with internal dilution)					
0.125 - 12.5 mg/L (with internal dilution)					
0.25 - 25 mg/L (with internal dilution)					
0.375 - 37.5 mg/L (with internal dilution)					
0.5 - 50 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					0T

Accessories

APPAZ0080011 - Overflow Vessel 100 mL for EZ sc
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

Reagents

APPC1022-01-EU - EZ1022 H_2O_2 Buffer Solution
APPC1022-02 - EZ1022 H_2O_2 Color Solution
APPC1022-DPD - EZ1022 H_2O_2 DPD Powder