EZ1000 Series Sulfate Analyzers

Applications

- Wastewater
- Drinking Water
- Power Generation
- Surface Water



Online colorimetric analysis of Sulfate in water

Results you can rely on

EZ1000 Sulfate Analyzers achieve excellent precision and accuracy. At the heart of the colorimeter there is a compact photometer assembly developed especially for the EZ Series. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length.

Smart automatic features for calibration, validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximized uptime and negligible operator invervention. Precision micropumps dose all reagents. Sample lines and analysis vessel are cleaned with demineralized water to eliminate cross contamination between samples. Electronic and wet-chemical part of the analyzer are strictly separated. A transparent door allows for instant visual inspection of the wet part.

Flexibility that meets your needs

EZ Series Sulfate Analyzers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated industrial panel PC. The modular build allows for the analyzer to match your application and operational needs.

- The standard measuring range can be narrowed by a different calibration range or extended via internal dilution options.
- Analog and digital output options
- Multiple stream analysis for up to 8 sample streams

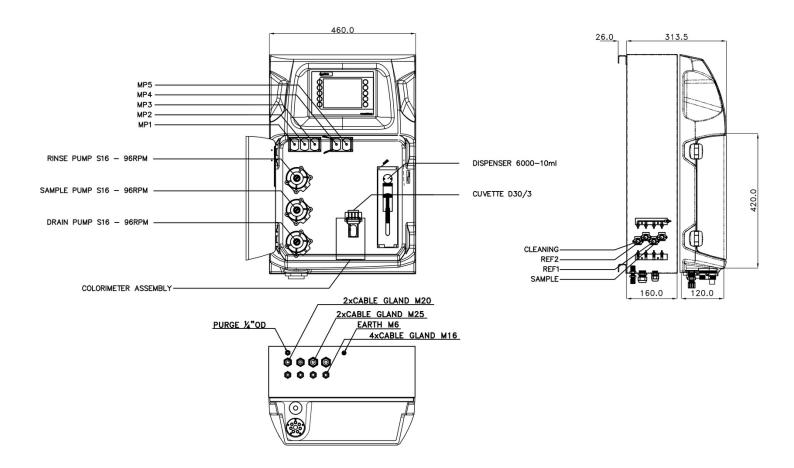


Technical Data*

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
Range	$\begin{array}{l} 10 - 40 \text{ mg/L SO}_4 \\ \text{Optional:} \\ 40 - 160 \text{ mg/L SO}_4 \text{ (with internal dilution)} \\ 80 - 320 \text{ mg/L SO}_4 \text{ (with internal dilution)} \\ 1000 - 4000 \text{ mg/L SO}_4 \text{ (with internal dilution)} \end{array}$
Precision	Better than 3% full scale range for standard test solutions
Lower Limit of Detection (LOD)	≤ 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 \pm 4 °C deviation (50 - 86 °F \pm 7.2 °F deviation)at 5 - 95% relative humidity (non-condensing)
Reagent Requirements	Keep between 10 - 30 °C (50 - 86 °F)
Sample Pressure	By external overflow vessel
Sample Flow Rate	100 - 300 mL/min
Sample Temperature	10 - 30 °C (50 - 86 °F)
Sample Quality	Maximum particle size 100 μ m, $<$ 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
Demineralized Water	For rinsing / dilution
Drain	Atmospheric pressure, vented, min. Ø 64 mm
Earth Connection	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > $2.5 \ \text{mm}^2$
Analog Outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Digital Outputs	Optional: Modbus (TCP/IP, RS485)
Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Protection Class	Analyzer cabinet: IP44 / Panel PC: IP65
Material	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated
Dimensions (H x W x D)	690 mm x 465 mm x 330 mm
Weight	25 kg (55 lbs.)
Certifications	CE compliant / ETL certified

*Subject to change without notice.

Dimensions



Hach Service

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.

DOC053.53.35191.Oct22

Order Information - Part Number Configurator

Standard range, 10-40 mg/L SO ₄ ²⁻	EZ1036.52	Х	X	Х	Х	Х	2
	·						
Measurement range settings / Dilution op							
Standard range 0							
Internal micropump dilution (factor 4)		1					
Internal micropump dilution (factor 8)		2					
Internal dispenser dilution (max factor 100)		5					
Power supply							
Standard 100 - 240 VAC, 50/60 Hz			0				
Otalidaid 100 240 VAO, 00/00112			O				
Number of sample streams							
1 stream				1			
2 streams				2			
4 streams				4			
8 streams				8			
Outputs							
1x mA					1		
2x mA					2		
4x mA					4		
8x mA					8		
1x mA + Modbus RS485					Е		
2x mA + Modbus RS485					F		
4x mA + Modbus RS485					Н		
8x mA + Modbus RS485					Р		
1x mA + Modbus TCP/IP					I		
2x mA + Modbus TCP/IP					J		
4x mA + Modbus TCP/IP					L		
8x mA + Modbus TCP/IP					Т		
No adaption, standard version						0	
140 dadption, oldinatio voloton						U	

