EZ1000 Series Sulphate Analysers

Applications

- Wastewater
- Drinking water
- Power and steam generation
- Surface water



Online colorimetric Sulphate measurements in industrial and environmental applications

Excellent analytical performance

The EZ1000 Series online analysers stem from many years of analytical expertise and application knowledge in colorimetry. At the heart of the analysers there is a compact photometer assembly. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length.

Since their introduction EZ Series Analysers have served in hundreds of industrial and municipal applications. The flexible analyser mainframe allows a perfect online duplicate of standard laboratory wet-chemical methods, with outstanding precision and accuracy.

The EZ1036 Sulphate Analysers combine unique technology with a set of analysis, control and communication features in an industrial analyser mainframe designed for the highest performance:

- Standard measuring ranges with optional internal dilution
- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

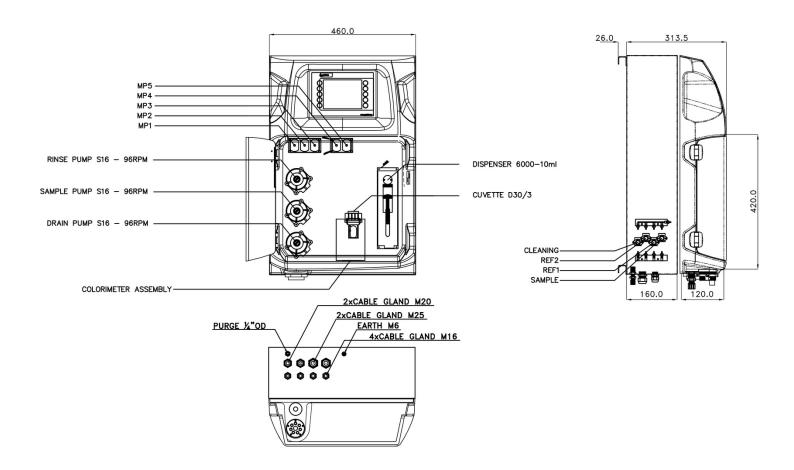


Technical Data*

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				
Measuring range	10 - 40 mg/L SO ₄ ²⁻				
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 \pm 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	110 - 240 VAC, 4 A, 50/60 Hz Max. power consumption: 150 VA				
Instrument air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air				
Demineralised water	For rinsing and/or 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 mm ²				
Analogue outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)				
Digital outputs	Optional: RS232, Modbus (TCP/IP, RS485)				
Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts				
Protection class	Analyser cabinet: IP55 / Panel PC: IP65				
Material	Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanised steel, powder coated				
Dimensions (H x W x D)	690 mm x 465 mm x 330 mm				
Weight	25 kg				
Certifications	CE compliant / UL certified				

*Subject to change without notice.

Dimensions



Be confident with Hach Service

Start-Up/Commissioning: Our service technicians visit your site and setup instrumentation, provide basic end-user training on operations and maintenance, and validate settings and performance to get you started.

Service Agreement: Hach provides on-site and in-factory repair, preventive maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

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Order Information

Standard range, 10-40 mg/L SO ₄ ²⁻	EZ1036.99	Х	Х	X	X	Х	2
Measurement range settings / Dilution option							
50% of standard range		С					
Standard range		0					
Internal micropump dilution (factor 4)		1					
Internal micropump dilution (factor 8)		2					
Internal dispenser dilution (max factor 100)		5					
Customised		Z					
Power supply							
Standard 110 - 240 VAC; 50/60 Hz			0				
Customised			Z				
Number of sample streams							
1 stream				1			
2 streams				2			
3 streams				3			
4 streams				4			
5 streams				5			
6 streams				6			
7 streams				7			
8 streams				8			
Outputs							
1x mA					1		
2x mA					2		
3x mA					3		
4x mA					4		
5x mA					5		
6x mA					6		
7x mA					7		
8x mA					8		
RS232					А		
Modbus TCP/IP					В		
Modbus RS485					С		
1x mA + Modbus RS485					Е		
2x mA + Modbus RS485					F		
3x mA + Modbus RS485					G		
4x mA + Modbus RS485					Н		
1x mA + Modbus TCP/IP					I		
2x mA + Modbus TCP/IP					J		
3x mA + Modbus TCP/IP					K		
4x mA + Modbus TCP/IP					L		
Customised / combined					Z		
Specials							
No adaption, standard version						0	
Customer specific adaptions required, to specify	,					S	

