EZ1000 SeriesOnline Colorimetric Silica Analyzer



Online colorimetric analysis of Silica in water

Results you can rely on

EZ1000 Silica 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. The limit of detection is in the low $\mu g/L$ range.

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 Silica 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



ApplicationsWastewater

Drinking waterSteam & power generation

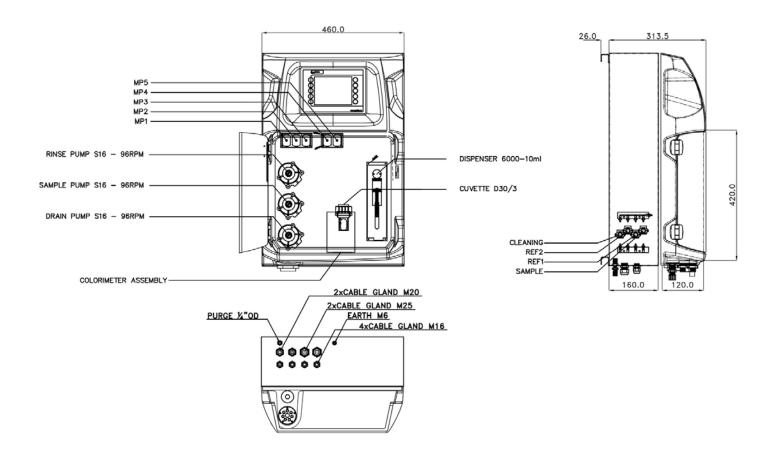
Process waterSurface water

Technical Data*

Parameter	Silica, Si					
	a) Low range: Colorimetric measurement at 800 nm					
Measurement method	b) High range: Colorimetric measurement at 630 nm					
	Both using molybdate, conform with standard method ASTM 4500-SiO2-C.					
	a) Low range: 0 - 100 μg/L Si Optional: 0 - 50 μg/L b) High range: 0 - 1 mg/L Si					
Measuring range	Optional: 0 - 100 µg/L 0 - 250 µg/L 0 - 500 µg/L 0 - 4 mg/L (with internal dilution) 0 - 8 mg/L (with internal dilution) 0 - 100 mg/L (with internal dilution)					
Precision	Better than 1% full scale range for standard test solutions					
Detection limit	a) $\leq 1 \mu g/L$					
	b) $\leq 10 \mu\text{g/L}$					
Interferences	Tannin, large amounts of Iron, Sulphide and Phospate interfere. Large amounts of color and turbidity interfere. Fats, oil, proteins, surfactants and tar.					
Cycle time	10 min (dilution + 5 min.)					
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 temperature	10 - 30 °C					
Sample quality	Maximum particle size 100 μ m, $<$ 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					
Demineralized 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	Analyzer 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.

DOC053.52.35280.Mar19

Order Information - Part Number Configurator

Measurement range settings / Dilution options A 10% of standard range (only EZ1035) B 25% of standard range (only EZ1035) C C C C C C C C C	Silica, low range: 0 - 100 µg/L Si Silica, high range: 0 - 1 mg/L Si	EZ1034.99 EZ1035.99	x	x	x	x	x	2
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Power supply Standard 110 - 240 VAC; 50/60 Hz	Internal dispenser dilution (max. factor 100) (only E	EZ1035)						
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