EZ1000 Series Online Colorimetric Cyanide Analyzer

Applications

- Wastewater
- Drinking Water
- Surface Water



Online colorimetric analysis of Free Cyanide in water

Results you can rely on

EZ1000 Free Cyanide 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 Free Cyanide 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

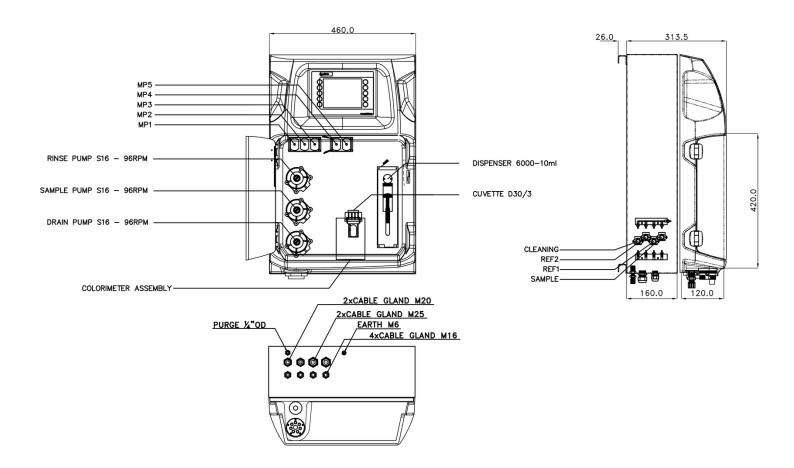


Technical Data*

Measurement Method Colorimetric measurement at 578 nm using chloramine T method, conform with standard method APHA 4500-CN (E) Range 5 - 200 μg/L CN Optional:	Parameter	Cyanide, free
Range Optional: 1 - 20 µg/L CN 2 - 50 µg/L CN 2 - 100 µg/L CN 2 - 100 µg/L CN 0.08 - 1.6 mg/L CN (with internal dilution) 0.08 - 1.6 mg/L CN (with internal dilution) 0.08 - 1.6 mg/L CN (with internal dilution) 0.5 - 20 mg/L CN Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar. Cycle Time 20 min (dilution + 5 min) 20 mg/L CN (with internal dilution) 20 mg/L	Measurement Method	Colorimetric measurement at 578 nm using chloramine T method, c
Lower Limit of Detection (LOD) ≤ 1 µg/L Interferences lons like Nitrite > 5 mg/L, Sulphide > 100 mg/L and Sulphite. Thiocyanate will cause high results. Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar. Cycle Time 20 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 (50 - 86 °F ± 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 Telow Rate 100 - 300 mL/min Sample Temperature 100 - 300 °C (50 - 86 °F) 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 Demineralized Water For rinsing / dilution Drain Atmospheric pressure, vented, min. Ø 64 mm Earth Connection Dry and clean earth pole with low impedance (< 1 0hm) using an earth cable of > 2.5 mm²<	Range	Optional: 1 - 20 µg/L CN 2 - 50 µg/L CN 2 - 100 µg/L CN 0.04 - 0.8 mg/L CN (with internal dilution) 0.08 - 1.6 mg/L CN (with internal dilution)
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Certifications CE compliant / UL certified	Weight	25 kg (55 lbs.)
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*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.

DOC053.53.35167.May20

Order Information - Part Number Configurator

CN, 5 - 200 μg/L EZ1012.99	X	X	Х	Х	X
Measurement range settings / Dilution options					
10% of standard range	А				
25% of standard range	В				
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				
Power supply					
Standard 100 - 240 VAC, 50/60 Hz		0			
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				A	
Modbus TCP/IP				В	
Modbus RS485				С	
1x mA + Modbus RS485				E	
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* *Combinations of up to 8x mA + Modbus are available				L	
Communications of up to ox the + Moubus are available					
lo adaption, standard version					0

