EZ1000 Series Chloride Analysers

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

Online colorimetric Chloride measurements in industrial and environmental applications

Excellent analytical performance

The EZ1000 Series online analyzers 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 EZ1005 Chloride Analysers combine unique technology with a set of analysis, control and communication features in an industrial analyser mainframe designed for the highest performance:
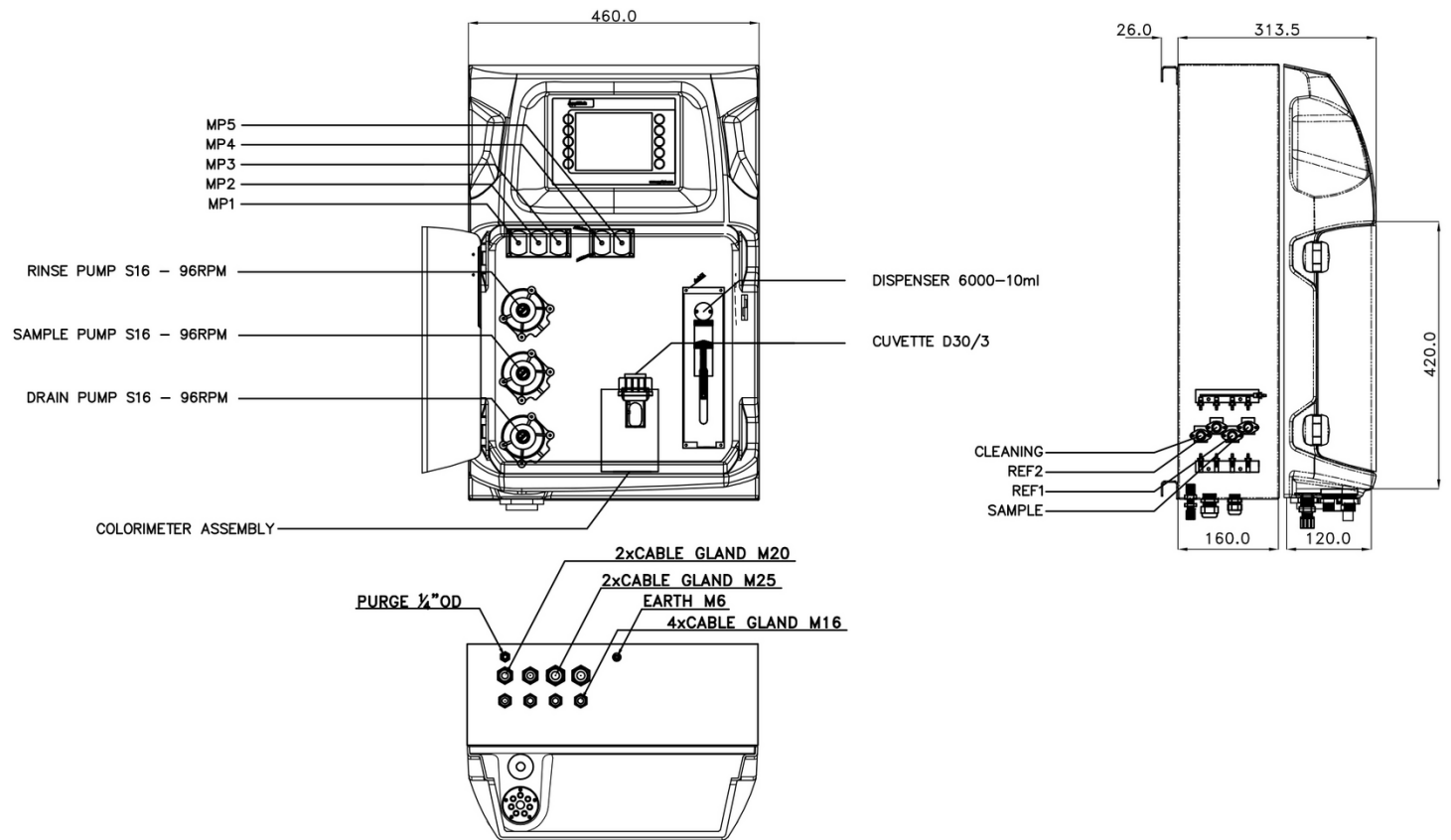
- Standard measuring ranges with optional internal dilution
- Smart automatic features
- Control and communication via industrial panel PC
- Analogue and digital output options
- Multiple stream analysis (up to 8 streams)

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Technical Data*

Parameter	Chloride
Measurement method	Colorimetric measurement of turbidity at 480 nm after silver chloride (AgCl) precipitation, based on standard method APHA 4500-Cl (B)
Measuring range	1 - 10 mg/L Cl⁻
Precision	Better than 2% full scale range for standard test solutions
Detection limit	≤ 1 mg/L
Interferences	Substances in amounts normally found in potable waters will likely not interfere. Bromide, iodide and cyanide register as equivalent chloride concentrations. Sulfide, thiosulphate and sulphite interfere but can be removed by treatment with hydrogen peroxide. Orthophosphate > 25 mg/L interferes by precipitating as silver phosphate. Iron > 10 mg/L interferes. 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 ± 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 mm²
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

- MP5
- MP4
- MP3
- MP2
- MP1

RINSE PUMP S16 — 96RPM

SAMPLE PUMP S16 — 96RPM

DRAIN PUMP S16 — 96RPM

COLORIMETER ASSEMBLY

DISPENSER 6000—10ml

CUVETTE D30/3

CLEANING
REF2
REF1
SAMPLE

460.0

26.0   313.5

420.0

160.0   120.0

PURGE ¼"OD

2xCABLE GLAND M20
2xCABLE GLAND M25
EARTH M6
4xCABLE GLAND M16

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.

Order Information - Part Number Configurator

Standard range, 1-10 mg/L Cl⁻	EZ1005.99	X	X	X	X	X	2
Measurement range settings / Dilution options							
25% of standard range		B					
50% of standard range		C					
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					A		
Modbus TCP/IP					B		
Modbus RS485					C		
1x mA + Modbus RS485					E		
2x mA + Modbus RS485					F		
3x mA + Modbus RS485					G		
4x mA + Modbus RS485					H		
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	

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