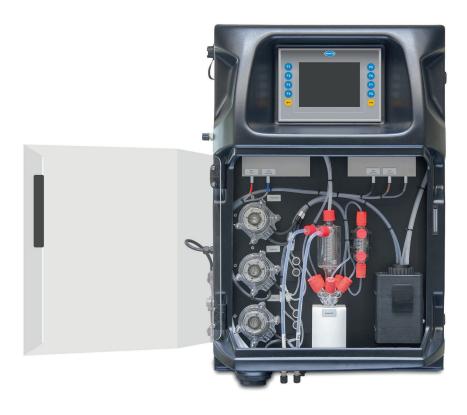
EZ2000 Series Online Colorimetric Analyzer for Total Chromium

Applications

- Wastewater
- Drinking Water
- Surface Water



Online colorimetric analysis of Total Chromium in water

Results you can rely on

EZ2000 Total Chromium 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 µg/L range.

EZ2000 Total Chromium Analyzers have an internal digestion unit. This additional step prior to analysis allows to measure non-soluble or complexed metal species.

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 Chromium 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

Options for the determination of Chromium include: Total Chromium; Total Chromium & Chromium Cr(VI), dissolved hexavalent; Total Chromium & Chromium Cr(VI), dissolved & Chromium Cr(III), dissolved

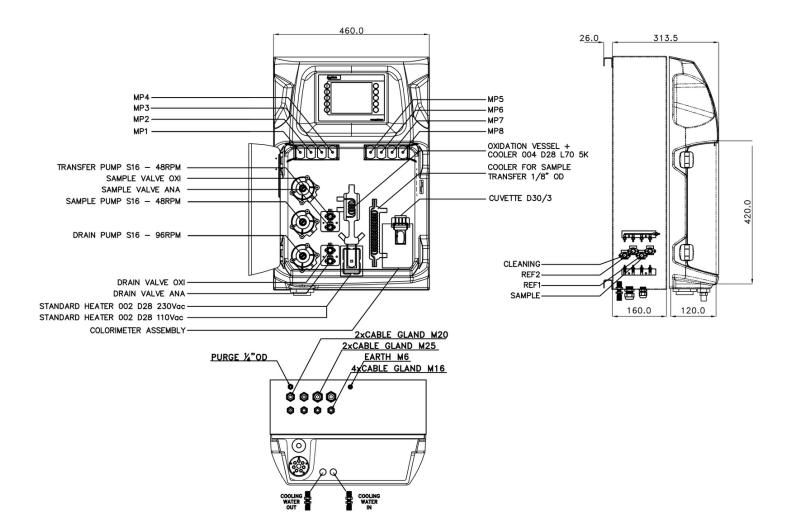


Technical Data*

Model	EZ2001	EZ2301	EZ2400				
Parameter	Chromium, total	Chromium, total; Cr(VI), dissolved	Chromium, total; Cr(VI), dissolved; Cr(III), dissolved				
Range	10 - 500 μg/L Cr Optional: 2 - 50 μg/L 4 - 125 μg/L 5 - 250 μg/L 0.16 - 2 mg/L (with internal dilution) 0.32 - 5 mg/L (with internal dilution) 1 - 10 mg/L (with internal dilution)	10 - 500 μg/L Cr Optional: 2 - 50 μg/L 4 - 125 μg/L 5 - 250 μg/L 0.16 - 2 mg/L (with internal dilution) 0.32 - 5 mg/L (with internal dilution)	Total Cr, Cr(VI): 10 - 500 μg/L Cr(III): 20 - 500 μg/L Optional: 2 - 50 μg/L Cr(III): 5 - 50 μg/L 4 - 125 μg/L Cr(III): 10 - 125 μg. 5 - 250 μg/L Cr(III): 10 - 250 μg. 0.16 - 2 mg/L Cr(III): 0.32 - 2 mg/L (with internal dilution) 0.32 - 5 mg/L Cr(III): 0.64 - 5 mg/L (with internal dilution)				
Precision	Better than 2% full scale range for standard test solutions	Better than 2% full scale range for standard test solutions	Better than 2% full scale range for standard test solutions				
Lower Limit of Detection (LOD)	≤ 2 µg/L	≤ 2 µg/L	Total Chromium, $Cr(VI)$: $\leq 2 \mu g/L$ $Cr(III)$: $\leq 5 \mu g/L$				
Measurement Method	Colorimetric measurement at 546 nm using diphenylcarbazide method, conform with standard method APHA 3500-Cr (B)						
Interferences		200 mg/L, molybdenum > 200 mg/L, rand turbidity interfere. Fats, oil, prote	arbazide method, -Cr (B) vanadium > 5 mg/L. ins, surfactants and tar.				
Cycle Time		20 minutes Total Cr (dilution + 5 min. 30 minutes Total Cr & Cr(VI)					
Automatic cleaning		Yes					
Calibration	Autom	atic, 2-point; frequency freely prograr	nmable				
Validation	Au	itomatic; frequency freely programma	ble				
Ambient Temperature	Automatic; frequency freely programmable 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					
Sample Pressure		By external overflow vessel					
Sample Flow Rate	100 - 300 mL/min						
Sample Temperature	10 - 30 °C						
Sample Quality	Maximum p	article size 100 µm, < 0.1 g/L; Turbid	ity < 50 NTU				
Power		230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 VA					
Instrument Air	Dry and oil free accord	ding to ISA-S7.0.01-1996 quality star	ndard for instrument air				
Demineralized Water		For rinsing / dilution					
Drain	Atm	ospheric pressure, vented, min. Ø 64	mm				
Cooling Water	Flow rate approx.	5 L/h; temperature max. 30 °C; pres	sure max. 0.5 bar				
Earth Connection	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm ²						
Analog 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	9	ed part: Thermoform ABS, door: plex section: Galvanized steel, powder co	•				
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



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.

DOC053.53.35170.Jun20

Order Information - Part Number Configurator

Total Cr, 10 - 500 μg/L Total Cr & Cr(VI), 10 - 500 μg/L	EZ2001.99 EZ2301.99	Х	Х	х	Х	X	2
Total Cr & Cr(VI) 10 - 500 μg/L, Cr(III) 20 - 500 μg/L	EZ2400.99						
Measurement range settings / Dilution options							
10% of standard range		Α					
25% of standard range		В					
50% of standard range		С					
Standard range		0					
nternal micropump dilution (factor 4)		1					
nternal micropump dilution (factor 10)		3					
nternal micropump dilution (factor 20) (only EZ2001)		4					
Power supply							
230 VAC, 50/60 Hz			Α				
120 VAC, 50/60 Hz			В				
Number of sample streams							
1 stream				1			
2 streams				2			
3 streams				3			
4 streams				4			
5 streams				5			
5 streams				6			
7 streams				7			
8 streams				8			
Januaria				O			
Outputs							
1x mA					1		
2x mA					2		
3x mA					3		
4x mA							
5x mA					4		
6x mA					5		
7x mA					6		
3x mA					7		
RS232					8		
Modbus TCP/IP					A		
Modbus RS485					В		
1x mA + Modbus RS485					С		
2x mA + Modbus RS485					E		
3x mA + Modbus RS485					F		
4x mA + Modbus RS485*					G		
1x mA + Modbus TCP/IP					H		
2x mA + Modbus TCP/IP					l I		
3x mA + Modbus TCP/IP					J		
4x mA + Modbus TCP/IP*					K		
*Combinations of up to 8x mA + Modbus are available.					L		
The state of the s							
- I was a second of the second							

