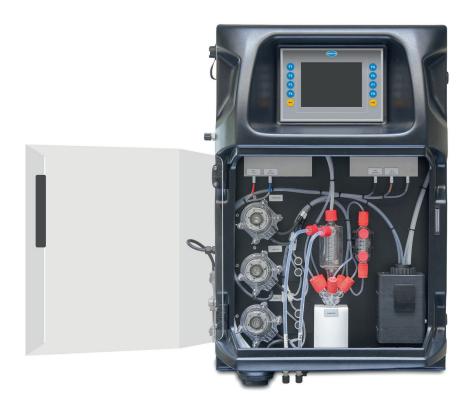
# EZ2000 Series Online Colorimetric Analyzer for Total Cyanide

### **Applications**

- Wastewater
- Drinking Water
- Surface Water



# Online colorimetric analysis of Total Cyanide in water

### Results you can rely on

EZ2000 Total 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.

EZ2000 Total Cyanide 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 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

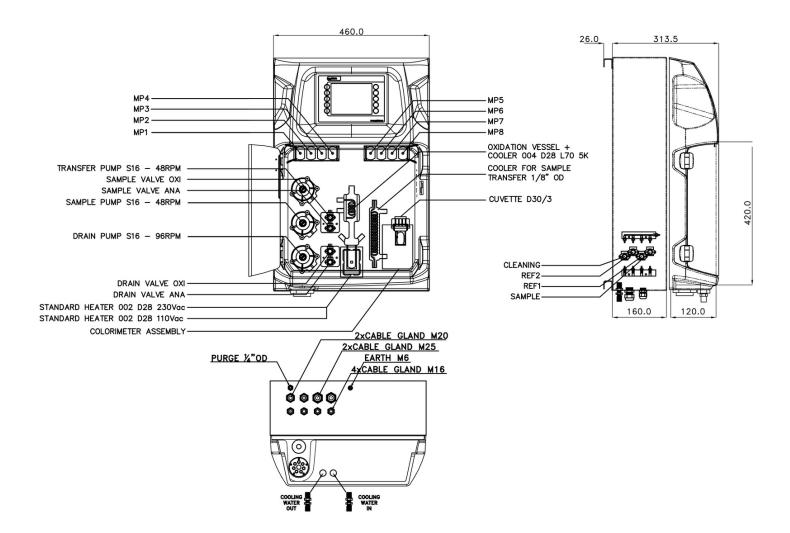


### **Technical Data\***

Parameter         Cyanide, total           Measurement Method         Colorimetric measurement at 578 nm using chloramine T method, conform with standard method APHA 4500-CN (E)           Range         1 - 100 μg/L CN Optional: 100 - 1000 μg/L (with internal ciliution)           Precision         Better than 5% full scale range for standard test solutions           Lower Limit of Detection (LOD)         s 1 μg/L           Interferences         lons like Nitritle > 5 mg/L, Sulphide > 100 mg/L and Sulphite. Thiocyanate will cause high results. Large amounts of color and turbidity interfere. Fats, oil, proteins, surfactants and far.           Cycle Time         75 min (dilution + 5 min)           Automatic cleaning         Yes           Calibration         Automatic, 2-point; frequency freely programmable           Validation         Automatic, 2-point; frequency freely programmable           Ambient Temperature         10 - 30 °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 Temperature         10 - 30 °C (50 - 86 °F)           Sample Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU           Instrument Air         Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air           Demineratized W		
Measurement wention         conform with standard method APHA 4500-CN (E)           Range         1 - 100 μg/L CN Optional: 100 - 1000 μg/L (with internal dilution)           Precision         Better than 5% full scale range for standard test solutions           Lower Limit of Detection (LOD)         ≤ 1 μg/L           Interferences         Ions like Nitrle > 5 mg/L, Sulphide > 100 mg/L and Sulphite. Thicocyanate will cause high results. Large amounts of color and turbicitity interfere. Fats, oil, proteins, surfactants and tar.           Cycle Time         75 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)           Sample Pressure         89 yexternal overflow vessel           Sample Flow Rate         100 - 300 mL/min           Sample Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU           Sample Temperature         10 - 30 °C (50 - 86 °F)           Sample Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU           Sample Temperature         10 - 30 °C (50 - 86 °F) <th>Parameter</th> <th>Cyanide, total</th>	Parameter	Cyanide, total
Range         Optional: 100 − 1000 μg/L (with internal dilution)           Precision         Better than 5% full scale range for standard test solutions           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 color and turbidity interfere. Fats, oil, proteins, surfactants and tar.           Cycle Time         75 min (dilution + 5 min)           Automatic cleaning         75 min (dilution + 5 min)           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         8 ceps between 10 − 30 ° C (50 − 86 °F)           Sample Pressure         9 yexternal overflow vessel           Sample Time Rate         10 − 30 ° C (50 − 86 °F)           Sample Quality         230 °VAC, 50 °60 °F           Ambient Temperature         10 − 30 ° C (50 − 86 °F)           Sample Quality         230 °VAC, 50 °60 °F           Instrument Air         Dry and oil free according to ISA-S7,0.01 •1996 quality standard for instrument air           Demineralized Water         For rinsing / dilution           Cooling Water         For wriate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar <t< th=""><th>Measurement Method</th><th></th></t<>	Measurement Method	
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 color and turbidity interfere. Fats, oil, proteins, surfactants and tar.           Cycle Time         75 min (dilution + 5 min)           Automatic cleaning         Yes           Calibration         Automatic, 2-point; 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 Flow Rate         10 - 30 °C (50 - 86 °F)           Sample Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU	Range	Optional:
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 color and turbidity interfere. Fats, oil, proteins, surfactants and tar.           Cycle Time         75 min (dilution + 5 min)           Automatic cleaning         Yes           Calibration         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 Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Max. mum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU	Precision	Better than 5% full scale range for standard test solutions
Large amounts of color and turbidity interfere. Fats, oil, proteins, surfactants and tar.  Cycle Time 75 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 Flow Rate 100 - 300 °C (50 - 86 °F)  Sample Temperature 10 - 30 °C (50 - 86 °F)  Sample Quality Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU  230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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  Cooling Water Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar  Earth Connection Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²  Analog Outputs Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs Optional: 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: IP44 / Panel PC: IP65  Material Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)		≤ 1 μg/L
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 Temperature         10 - 30 °C (50 - 86 °F)           Sample Quality         Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU           Power         230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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           Cooling Water         Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar           Earth Connection         Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²           Analog Outputs         Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)           Digital Outputs         Optional: Modbus (TCP/IP, RS485)           Alarm         1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts </th <th>Interferences</th> <th></th>	Interferences	
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 Flow Rate       100 - 300 °C (50 - 86 °F)         Sample Quality       Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU	Cycle Time	75 min (dilution + 5 min)
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 Temperature       10 - 30 °C (50 - 86 °F)         Sample Quality       Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU	Automatic cleaning	Yes
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 Flow Rate       100 - 300 mL/min         Sample Temperature       10 - 30 °C (50 - 86 °F)         Sample Quality       Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU         Power       230 VAC, 50/60 Hz Max. power consumption: 440 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         Cooling Water       Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar         Earth Connection       Dry and clean earth pole with low impedance (< 1 0hm) using an earth cable of > 2.5 mm²         Analog Outputs       Active 4 - 20 mA max. 500 0hm load, standard 1, max. 8 (option)         Digital Outputs       Optional: 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: IP44 / Panel PC: IP65         Material       Hinged part: Thermoform ABS, door: plexiglass         Wall section: Galvanized steel, po	Calibration	Automatic, 2-point; frequency freely programmable
Reagent Requirements       Keep between 10 - 30 °C (50 - 86 °F)         Sample Pressure       By external overflow vessel         Sample Flow Rate       100 - 300 °C (50 - 86 °F)         Sample Temperature       10 - 30 °C (50 - 86 °F)         Sample Quality       Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU         Power       230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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         Cooling Water       Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar         Earth Connection       Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²         Analog Outputs       Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)         Digital Outputs       Optional: 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: IP44 / Panel PC: IP65         Material       Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated         Dimensions (H x W x D)       690 mm x 465 mm x 330 mm         Weight       25 kg (55 lbs.) </th <th>Validation</th> <th>Automatic; frequency freely programmable</th>	Validation	Automatic; frequency freely programmable
Sample Pressure By external overflow vessel  Sample Flow Rate 100 - 300 mL/min  Sample Temperature 10 - 30 °C (50 - 86 °F)  Sample Quality Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU  230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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  Cooling Water Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar  Earth Connection Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²  Analog Outputs Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs Optional: 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: IP44 / Panel PC: IP65  Material Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Ambient Temperature	10 - 30 °C ± 4 °C deviation (50 - 86 °F ± 7.2 °F deviation) at 5 - 95% relative humidity (non-condensing)
Sample Flow Rate100 - 300 mL/minSample Temperature10 - 30 °C (50 - 86 °F)Sample QualityMaximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTUPower230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 VAInstrument AirDry and oil free according to ISA-S7.0.01-1996 quality standard for instrument airDemineralized WaterFor rinsing / dilutionDrainAtmospheric pressure, vented, min. Ø 64 mmCooling WaterFlow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 barEarth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Reagent Requirements	Keep between 10 - 30 °C (50 - 86 °F)
Sample Temperature       10 - 30 °C (50 - 86 °F)         Sample Quality       Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU         Power       230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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         Cooling Water       Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar         Earth Connection       Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²         Analog Outputs       Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)         Digital Outputs       Optional: 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: IP44 / Panel PC: IP65         Material       Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated         Dimensions (H x W x D)       690 mm x 465 mm x 330 mm         Weight       25 kg (55 lbs.)	Sample Pressure	By external overflow vessel
Sample QualityMaximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU	Sample Flow Rate	100 - 300 mL/min
Power 230 VAC, 50/60 Hz 120 VAC, 50/60 Hz Max. power consumption: 440 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  Cooling Water Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar  Earth Connection Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²  Analog Outputs Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs Optional: 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: IP44 / Panel PC: IP65  Material Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Sample Temperature	10 - 30 °C (50 - 86 °F)
Power120 VAC, 50/60 Hz Max. power consumption: 440 VAInstrument AirDry and oil free according to ISA-S7.0.01-1996 quality standard for instrument airDemineralized WaterFor rinsing / dilutionDrainAtmospheric pressure, vented, min. Ø 64 mmCooling WaterFlow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 barEarth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Sample Quality	Maximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU
Demineralized WaterFor rinsing / dilutionDrainAtmospheric pressure, vented, min. Ø 64 mmCooling WaterFlow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 barEarth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Power	120 VAC, 50/60 Hz
DrainAtmospheric pressure, vented, min. Ø 64 mmCooling WaterFlow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 barEarth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Instrument Air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air
Cooling WaterFlow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 barEarth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Demineralized Water	For rinsing / dilution
Earth ConnectionDry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm²Analog OutputsActive 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)Digital OutputsOptional: Modbus (TCP/IP, RS485)Alarm1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyser cabinet: IP44 / Panel PC: IP65MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Drain	Atmospheric pressure, vented, min. Ø 64 mm
Analog Outputs Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs Optional: 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: IP44 / Panel PC: IP65  Material Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Cooling Water	Flow rate approx. 5 L/h; temperature max. 30 °C; pressure max. 0.5 bar
Digital Outputs Optional: 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: IP44 / Panel PC: IP65  Material Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Earth Connection	Dry and clean earth pole with low impedance (< 1 Ohm) using an earth cable of > 2.5 mm <sup>2</sup>
Alarm  1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Analyser cabinet: IP44 / Panel PC: IP65  Material  Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D)  690 mm x 465 mm x 330 mm  Weight  25 kg (55 lbs.)	Analog Outputs	Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)
Protection Class  Analyser cabinet: IP44 / Panel PC: IP65  Material  Hinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Digital Outputs	Optional: Modbus (TCP/IP, RS485)
MaterialHinged part: Thermoform ABS, door: plexiglass Wall section: Galvanized steel, powder coatedDimensions (H x W x D)690 mm x 465 mm x 330 mmWeight25 kg (55 lbs.)	Alarm	1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts
Wall section: Galvanized steel, powder coated  Dimensions (H x W x D) 690 mm x 465 mm x 330 mm  Weight 25 kg (55 lbs.)	Protection Class	Analyser cabinet: IP44 / Panel PC: IP65
Weight         25 kg (55 lbs.)	Material	
	Dimensions (H x W x D)	690 mm x 465 mm x 330 mm
Certifications CE compliant / ETL certified	Weight	25 kg (55 lbs.)
	Certifications	CE compliant / ETL 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.

# DOC053.53.35172.0ct22

# **Order Information - Part Number Configurator**

Total CN, 1 - 100 μg/L	EZ2500.53	Х	Х	X	X	X	2
Measurement range settings							
Standard range		0					
Internal micropump dilution (factor 10)		3					
Power supply							
230 VAC, 50/60 Hz			А				
120 VAC, 50/60 Hz			В				
Number of sample streams							
1 stream				1			
2 streams				2			
4 streams				4			
8 streams				8			
Outputs							
1x mA					1		
2x mA					2		
4x mA					4		
8x mA					8		
1x mA + Modbus RS485					E		
2x mA + Modbus RS485					F		
4x mA + Modbus RS485					Н		
8x mA + Modbus RS485				Р			
1x mA + Modbus TCP/IP					1		
2x mA + Modbus TCP/IP					J		
4x mA + Modbus TCP/IP					L		
8x mA + Modbus TCP/IP					Т		
No adaption, standard version						0	