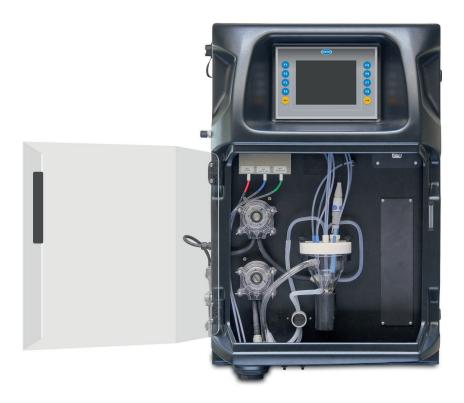
## **EZ3500 Series Fluoride Analyzers**

#### **Applications**

- Wastewater
- Process Water



### Online ion-selective Fluoride measurements with standard addition for industrial applications

#### ISE technology for complex water matrices

The EZ3500 Series are used for water monitoring applications where ion-selective electrodes are the preferred analytical technique, but the water matrix is complex. Standard addition helps minimize matrix interferences that otherwise might contribute to the output signal of the electrode.

#### Discontinuous, automatic standard addition

The EZ3500 Series run discontinuous measurements with careful addition of a known standard in an analysis vessel. Discontinuous ISE analysis enhances control over the potentiometry, eliminates cross-contamination between cycles and reduces overall reagent consumption.

The EZ3500 Series combine unique technology with a set of analysis, control and communication features in an industrial analyzer mainframe designed for the highest performance:

- Smart automatic features
- Control and communication via industrial panel PC
- Analog and digital output options
- Multiple stream analysis (up to 8 streams)

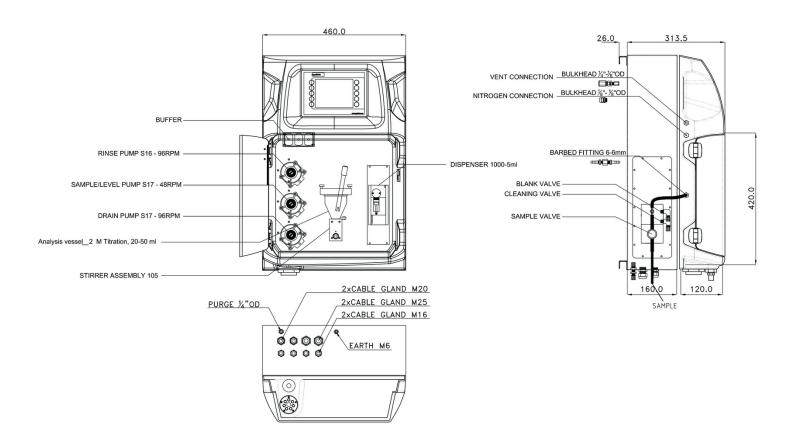


#### **Technical Data\***

Parameter         Fluoride         Fluoride           Range         0.5 - 10 mg/L F Optional: 0.1 + 2.5 mg/L F 0.25 - 5 mg/L F 2.5 - 50 mg/L F 2.5 - 50 mg/L F         5 - 100 mg/L F 2.5 - 50 mg/L F 2.5 - 50 mg/L F           Lower Limit of Detection (LOD)         ≤ 0.1 mg/L         ≤ 1 mg/L           Precision         Better than 2% full scale range for standard test solutions           Measurement Method         Discontinuous measurement by combined ion-selective electrode with standard addition           Interferences         Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L.           Cycle Time         8 minutes           Automatic cleaning         Yes           Calibration         Automatic, 2-point; 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 (50 - 88 °F)           Sample Pressure         By external overflow vessel           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; Turbicity < 50 NTU           Power         11 - 240 VAC, 4 A, 50/60 Hz Max, power consumption: 150 VA           Instrument Air         Dry and clean earth pole with low impedance, < 10 mg/L sandard 1, max, 8 (o	Model	EZ3507	EZ3508					
Range         Optional: 0.1 - 2.5 mg/L F: 0.25 - 5 mg/L F: 2.5 - 50 mg/L F:	Parameter	Fluoride	Fluoride					
Petection (LOD)  Precision  Better than 2% full scale range for standard test solutions  Measurement Method  Discontinuous measurement by combined ion-selective electrode with standard addition  Interferences  Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L.  Fats, oil, proteins, surfactants and tar.  Cycle Time  8 minutes  Automatic cleaning  Yes  Calibration  Automatic, 2-point; frequency freely programmable  Automatic memory freely programmable  Ambient Temperature  10 - 30 °C ±4 °C 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 - 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  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  Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Material  Dimensions (H x W x D)  Weight  Petitory in the described with a standard standard standard of the contacts  Potential Cables over the contacts  Potential Cables over the contacts  Potential Cables over the contacts  Analyzer cablinet: IP55 / Panel PC: IP65  Material  Dimensions (H x W x D)  Potential Cables over the contacts  Potential Cables over the cable of > 2.5 mm²  Analyzer cablinet: IP55 / Panel PC: IP65  Material	Range	Optional: 0.1 - 2.5 mg/L F <sup>-</sup>	Optional: 1 - 25 mg/L F <sup>-</sup>					
Measurement Method         Discontinuous measurement by combined ion-selective electrode with standard addition           Interferences         Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L.           Cycle Time         8 minutes           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 (50 - 86 °F)           Sample Pressure         By external overflow vessel           Sample Flow Rate         100 - 300 mL/min           Sample Quality         Maximum particle size 100 µm, < 0.1 g/L; Turbidity < 50 NTU		≤ 0.1 mg/L	≤ 1 mg/L					
Interferences         Metal ions like aluminium > 72 mg/L, calcium > 108 mg/L and iron > 150 mg/L. Fats, oil, proteins, surfactants and tar.           Cycle Time         8 minutes           Automatic cleaning         Yes           Calibration         Automatic, 2-point; frequency freely programmable           Validation         Automatic, 2-point; 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 (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	Precision	Better than 2% full scale ranç	Better than 2% full scale range for standard test solutions					
Cycle Time  Automatic cleaning  Automatic, 2-point; frequency freely programmable  Automatic Temperature  Automatic, 2-point; frequency freely programmable  Automatic; frequency freely programmable  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 (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; Turbiclity < 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  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  Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Analyzer cabinet: IP55 / Panel PC; IP65  Material  Dimensions (H x W x D)  690 mm x 465 mm x 330 mm  Weight	Measurement Method	Discontinuous measurement by combined in	Discontinuous measurement by combined ion-selective electrode with standard addition					
Automatic cleaning  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 (50 - 86 °F)  Sample Pressure  By external overflow vessel  Sample Thomatic and the state of the state	Interferences							
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 (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	Cycle Time	8 minutes						
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 (50 - 86 °F)         Sample Pressure       By external overflow vessel         Sample Temperature       100 - 300 mL/min         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         Demineralized Water       For rinsing         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         Analog Outputs       Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)         Digital Outputs       Optional: RS232, Modbus (TCP/IP, RS485)         Alarm       1x malfunctioning, 4x 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: Galvanized steel, powder coated         Dimensions (H x W x D)       690 mm x 465 mm x 330 mm         Weight <th>Automatic cleaning</th> <th colspan="5">Yes</th>	Automatic cleaning	Yes						
Ambient Temperature  10 - 30 °C ±4 °C deviation at 5 - 95% relative humidity (non-condensing)  Reagent Requirements  Sample Pressure  By external overflow vessel  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  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  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  Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Analyzer cabinet: IP55 / Panel PC: IP65  Material  Material  Dienersions (H x W x D)  690 mm x 465 mm x 330 mm  Weight	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 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         Demineralized Water       For rinsing         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         Analog Outputs       Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)         Digital Outputs       Optional: RS232, Modbus (TCP/IP, RS485)         Alarm       1x malfunctioning, 4x 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: Galvanized steel, powder coated         Dimensions (H x W x D)       690 mm x 465 mm x 330 mm         Weight       25 kg (55 lbs.)	Validation	Automatic; frequency freely programmable						
Sample Pressure  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  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  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  Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Material  Material  Material  Material  Gen mm x 465 mm x 330 mm  Weight  25 kg (55 lbs.)	Ambient Temperature	10 - 30 °C ±4 °C 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 NTU	Reagent Requirements	Keep between 10 -	Keep between 10 - 30 °C (50 - 86 °F)					
Sample Temperature10 - 30 °C (50 - 86 °F)Sample QualityMaximum particle size 100 μm, < 0.1 g/L; Turbidity < 50 NTU	Sample Pressure	By external or	By external overflow vessel					
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  Demineralized Water  For rinsing  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  Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x 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: Galvanized steel, powder coated  Dimensions (H x W x D)  690 mm x 465 mm x 330 mm  Weight	Sample Flow Rate	100 - 300	100 - 300 mL/min					
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  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  Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x 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: Galvanized steel, powder coated  Dimensions (H x W x D)  690 mm x 465 mm x 330 mm  Weight	Sample Temperature	10 - 30 °C	10 - 30 °C (50 - 86 °F)					
Instrument AirDry and oil free according to ISA-S7.0.01-1996 quality standard for instrument airDemineralized WaterFor rinsingDrainAtmospheric pressure, vented, min. Ø 64 mmEarth 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: RS232, Modbus (TCP/IP, RS485)Alarm1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyzer cabinet: IP55 / 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 $\mu$ m, < 0.1 g/L; Turbidity < 50 NTU						
Demineralized WaterFor rinsingDrainAtmospheric pressure, vented, min. Ø 64 mmEarth 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: RS232, Modbus (TCP/IP, RS485)Alarm1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contactsProtection ClassAnalyzer cabinet: IP55 / 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	110 - 240 VAC, 4 A, 50/60 Hz Max. power consumption: 150 VA						
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         Analog Outputs       Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)         Digital Outputs       Optional: RS232, Modbus (TCP/IP, RS485)         Alarm       1x malfunctioning, 4x 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: Galvanized steel, powder coated         Dimensions (H x W x D)       690 mm x 465 mm x 330 mm         Weight       25 kg (55 lbs.)	Instrument Air	Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air						
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Analog Outputs  Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option)  Digital Outputs  Optional: RS232, Modbus (TCP/IP, RS485)  Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Analyzer cabinet: IP55 / Panel PC: IP65  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.)	Drain							
Digital Outputs Optional: RS232, Modbus (TCP/IP, RS485)  Alarm 1x malfunctioning, 4x 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: 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							
Alarm  1x malfunctioning, 4x user-configurable, max. 24 VDC/0.5 A, potential free contacts  Protection Class  Analyzer cabinet: IP55 / Panel PC: IP65  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  Analyzer cabinet: IP55 / Panel PC: IP65  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: RS232, Mo	Optional: RS232, 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	1x malfunctioning, 4x 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	Analyzer cabinet: IP55 / Panel PC: IP65						
<b>Weight</b> 25 kg (55 lbs.)	Material	9 ,						
	Dimensions (H x W x D)	690 mm x 465 mm x 330 mm						
Certifications CE compliant / UL certified	Weight	25 kg (	25 kg (55 lbs.)					
	Certifications	CE compliant	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.

# DOC053.53.35190.Feb20

#### **Order Information - Part Number Configurator**

Standard range, 0.5-10 mg/L F <sup>-</sup> Standard range, 5-100 mg/L F <sup>-</sup>	EZ3507.99 EZ3508.99	х	х	х	х	х	2
Measurement range settings / Dilution 25% of standard range 50% of standard range Standard range Customized	n options	B C 0 Z					
Power supply Standard 110 - 240 VAC; 50/60 Hz Customized			0 Z				
Number of sample streams  1 stream  2 streams  3 streams  4 streams  5 streams  6 streams  7 streams  8 streams				1 2 3 4 5 6 7			
Outputs  1x mA  2x mA  3x mA  4x mA  5x mA  6x mA  7x mA  8x mA  RS232  Modbus TCP/IP  Modbus RS485  1x mA + Modbus RS485  3x mA + Modbus RS485  4x mA + Modbus RS485					1 2 3 4 5 6 7 8 A B C E F G H		
1x mA + Modbus TCP/IP 2x mA + Modbus TCP/IP 3x mA + Modbus TCP/IP 4x mA + Modbus TCP/IP Customized / combined					I J K L Z		
Specials  No adaption, standard version  Customer specific adaptions required, to specify						0 S	

