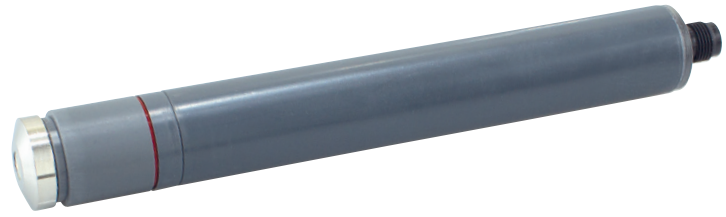


Chlorine Dioxide

90S210000



The application areas of this sensor extend to almost all water qualities. It is resistant to chemicals and detergents thanks to a special membrane system. The chlorine dioxide sensor is resistant to chlorine. Ozone is measured with a 25 times higher

sensitivity than chlorine dioxide. The measuring cell can be used in the pH range from pH >1 up to the limit of stability of chlorine dioxide in alkaline solutions. Precipitation, such as lime, can block the membrane!

Benefits

- Surfactants are partially tolerated
- Abrasive particles are tolerated
- Higher temperatures are possible

Applications

- All types of water treatment

Technical Specifications

OPERATION AND SYSTEM CONFIGURATION

Measurement principle	Membrane-covered, amperometric 2-electrode system
Measuring method	Amperometry

AUXILIARY POWER

Electrical connection	8-pin M12 plug
Power supply	12-24 V

INPUT PARAMETERS

Measured variables	Chlorine Dioxide
Measuring ranges	2 ppm, 20 ppm
Cable specification	black PUR (halogen free), shielded, M12 plug
Temperature compensation	Automatic through integrated temperature sensor, temperature changes <5 °C/h

OUTPUT SIZES

Output signal	RS-485, Modbus RTU
Accuracy	Measuring range 2 ppm: at 0.4 ppm & 1.6 ppm < 1 % Measuring range 20 ppm: at 1.5 ppm < 0.1 %
Data interface	RS-485, Modbus RTU

PERFORMANCE CHARACTERISTICS

Response time	T90: approx. 1 min
Running-in period	Approx. 1 h prior to initial operation
Cross influences	Cl ₂ : does not interfere · O ₃ : is measured with 25 higher sensitivity than ClO ₂
Calibration method	On the meter by means of analytical determination

Maintenance interval	Regular monitoring of the measurement signal at least once a week.
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AMBIENT CONDITIONS

Storage temperature	Sensor: Frost free, dry and without electrolyte
Compressive strength	1.0 bar, no pressure shocks or vibrations

PROCESS CONDITIONS

Process temperature	+5...+50 °C
Process pressure	1.0 bar, no pressure shocks or vibrations
pH range	pH 2...11

STRUCTURAL DESIGN

Dimensions	205 mm x 25 mm (L x Ø)
Materials	PVC-U, stainless steel 1.4571

CERTIFICATES AND APPROVALS

CE Manufacturer's Declaration	2014/30/EC EMC Directive (EN 61326-1:2013)
Work certificates	Yes

SCOPE OF DELIVERY

value only lead Manual	Yes
CE Manufacturer's Declaration	Yes
Test certificate	Yes

ACCESSORIES

Fittings	Flow unit
Cables	Extension cables: 0.3 m, 2 m, 10 m, 25 m
Measuring transducer	TriBox3, TriBox mini, HS100, TriBox Flex
Validation / calibration	DPD method