Chlorine Dioxide Sensor Digital

90\$220000 . 90\$020000



The chlorine dioxide sensor from the eCHEM sensors product range is an electrochemical sensor for measuring the chlorine dioxide concentration in water. The range of application of the sensor covers almost all water qualities and treatments (e.g. bottle washing machine, CIP system, rinser). It can also be used in seawater. Thanks to a special membrane system, the sensor is particularly resistant to chemicals and surfactants.

Benefits

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

Applications

· All types of water treatment

Accessories

· Cable: Extension cables of 0.3 m, 2 m, 10 m, 25 m

• Controller: TriBox3, TriBox Mini, HS100

· Fittings: FlowCell



Chlorine Dioxide

Technical Specifications

Measurement technology	Membrane-covered, amperometric 2-electrode system
Measurement principle	Amperometry
Parameters	Chlorine Dioxide
Measurement range	02 mg/L, 020 mg/L
Accuracy	Measuring range 2 mg/L:
	at 0.4 mg/L & 1.6 mg/L < 1 %
	Measuring range 20 mg/L:
	at 1.5 mg/L < 0.1 %
Response time	T90: approx. 1 min
Running-in period	Approx. 2 h prior to initial operation
Drift	Approx1% per month
Temperature compensation	Automatic through integrated temperature sensor; Temperature jumps must be avoided
Housing material	Micro-porous hydrophilic membrane, UPVC, stainless steel 1.4571
Dimensions (L x Ø)	Approx. 205 mm x approx. 25 mm ~ 8.1" x 1"
Interface	RS-485, Modbus RTU
Power supply	930 VDC, max. 56 mA
Connection	8-pin M12 plug
Maintenance interval	typically once a week measuring signal check, membrane cap change & electrolyte change depending on application
System compatibility	Modbus RTU
Warranty	1 year (EU & US: 2 years) on electronics; wear parts are excluded from the warranty
Process pressure	1 bar, no pressure shocks or vibrations, operation with retaining ring ~ 14.5 psig
Calibration method	Determination of chlorine with DPD-1 method
Process temperature	0+50 °C (no ice crystals in the test water) ~ +32 °F +122 °F
Flow rate	Approx. 1530 L/h in FLC-3, minimum flow dependence exists
pH range	pH 1 pH 12, reduced pH dependence
Conductivity	10 μS/cm50 mS/cm (sea water)
Cross influences	Cl2 does not interfere; O3: factor 25

