Chlorine Dioxide

905220000 · 905020000



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 also 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

Accessories

- Cable: Extension cables of 0.3 m, 2 m, 10 m, 25 m
- Controller: TriBox3, TriBox Mini, HS100
- · Fittings: FlowCell

Technical Specifications

ODEDAT		CVCTEM	CONFIGUR	Ο ΛΤΙΛΝ
OFERAL	ION AND	,	CONFIGUR	MILLON

OPERATION AND SYSTEM	CONFIGURATION	
Measurement principle	Membrane-covered, ampero- metric 2-electrode system	
Measuring method	Amperometry	
AUXILIARY POWER		
Electrical connection	8-pin M12 plug	
Power supply	1224 V	
INPUT PARAMETERS		
Measured variables	Chlorine Dioxide	
Measuring ranges	2 mg/L, 20 mg/L	
Cable specification	-	
Temperature compensation	Automatic through integrated temperature sensor, temperature changes <5 °C/h	
OUTPUT SIZES		
Output signal	RS-485, Modbus RTU	
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 %	
Data interface	RS-485, Modbus RTU	

PERFORMANCE CHARACTERISTICS

Response time	T90: approx. 1 min	
Running-in period	Approx. 1 h at initial operation	
Cross influences	Cl ₂ : does not interfere, O ₃ : is measured with 25 high- er sensitivity than ClO ₂	
Calibration method	On Controller by means of analytical determination	
Maintenance interval	Regular monitoring of the measurement signal at least once a week.	
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 211	
STRUCTURAL DESIGN		
Dimensions (Ø x L)	25 mm x 205 mm	
Materials	PVC-U, stainless steel 1.4571	

