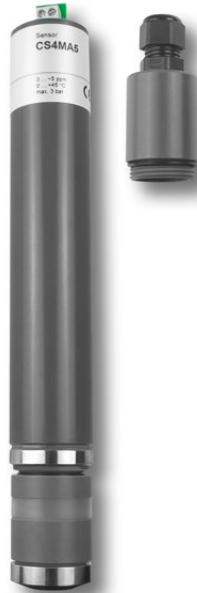


1.1.1 DOSASens Chlorine Sensor CS4-...-SW

Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of free inorganic chlorine with reduced pH-dependence in sea water.



Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(OCl)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method
- Interferences: 75 % of ClO₂-concentration, 80 % of O₃-concentration, combined chlorine may increase the measuring value
- pH range: 4 ... 9
- Pressure range: 0 ... 3.0 bar, no pressure surges and/or fluctuations,
- Temperature range: 0 ... 45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min.
- Flow rate: approx. 30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous hydrophilic membrane

Areas of application:

- Sea water at 10 µS/cm ... 50 mS/cm, surfactants are partially tolerated

Scope of supply:

- **CS4-...-SW:** sensor, membrane cap, electrolyte

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4H-SW	0.005 ... 2.000	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 V DC 10 mA	3426900
CS4N-SW	0.05 ... 20.00	0.01			3426901
CS4L-SW	0.5 ... 200.0	0.1			3426902
CS4H-An-SW	0.005 ... 2.000	0.001		9 ... 30 V DC 20 ... 56 mA	3426920
CS4N-An-SW	0.05 ... 20.00	0.01			3426921
CS4L-An-SW	0.5 ... 200.0	0.1			3426922
CS4H-M0c-SW	0.005 ... 2.000	0.001	ModBus RTU	3426960	
CS4N-M0c-SW	0.05 ... 20.00	0.01		3426961	
CS4L-M0c-SW	0.5 ... 200.0	0.1		3426962	

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4MA2-SW	0.01 ... 2.00	0.01	4 ... 20 mA	12...30 V DC R: 50Ω ... 900Ω	3426903
CS4MA5-SW	0.01 ... 5.00	0.01			3426904
CS4MA10-SW	0.01 ... 10.00	0.01			3426905
CS4MA20-SW	0.01 ... 20.00	0.01			3426906
CS4MA200-SW	0.5 ... 200.0	0.1			3426907
CS4MA2-M12-SW	0.01 ... 2.00	0.01	4 ... 20 mA	12...30 V DC R: 50Ω ... 900Ω	3426913
CS4MA5-M12-SW	0.01 ... 5.00	0.01			3426914
CS4MA10-M12-SW	0.01 ... 10.00	0.01			3426915
CS4MA20-M12-SW	0.01 ... 20.00	0.01			3426916
CS4MA200-M12-SW	0.5 ... 200.0	0.1			3426917

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CS4H-SW	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CS4N-SW	-100 mV/ppm		
CS4L-SW	-10 mV/ppm		
CS4H-An-SW	-1000 mV/ppm		
CS4N-An-SW	-100 mV/ppm		
CS4L-An-SW	-10 mV/ppm		
CS4H-M1c-SW	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
CS4N-M1c-SW			
CS4L-M1c-SW			
CS4 MA2-SW	8.0 mA/ppm	2-pole terminal	
CS4 MA5-SW	3.2 mA/ppm		
CS4 MA10-SW	1.6 mA/ppm		
CS4 MA20-SW	0.8 mA/ppm		
CS4 MA200-SW	0.08 mA/ppm		
CS4 MA2-M12-SW	8.0 mA/ppm	M12 female	
CS4 MA5-M12-SW	3.2 mA/ppm		
CS4 MA10-M12-SW	1.6 mA/ppm		
CS4 MA20-M12-SW	0.8 mA/ppm		
CS4 MA200-M12-SW	0.08 mA/ppm		

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
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Spare parts:

Spare part:	For sensor type:	Item number:
Membrane cap M48.4S	CS4 all types, for use in sea water	9026026
Electrolyte ECS2.1	CS4 all types	9026060

Accessories:

Type:	For sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
mV sensor simulator	all sensors with mV signal	9026205
mA sensor simulator	all sensors with mA signal	on request
mV simulator and mA tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	all sensors	90231000