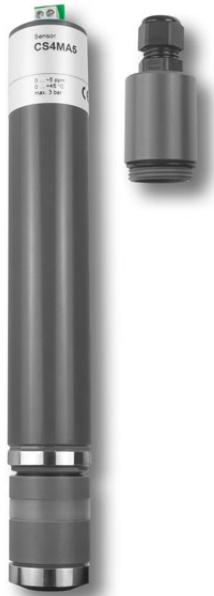


1.1.1 DOSASens Chlorine Sensor CS4

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



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:

- Fresh water, surfactants are partially tolerated

Scope of supply:

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

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4H	0.005 ... 2.000	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 V DC 10 mA	3426300
CS4N	0.05 ... 20.00	0.01			3426301
CS4L	0.5 ... 200.0	0.1			3426302
CS4H-An	0.005 ... 2.000	0.001		9 ... 30 V DC 20 ... 56 mA	3426320
CS4N-An	0.05 ... 20.00	0.01			3426321
CS4L-An	0.5 ... 200.0	0.1			3426322
CS4H-M0c	0.005 ... 2.000	0.001	ModBus RTU	3426360	
CS4N-M0c	0.05 ... 20.00	0.01		3426361	
CS4L-M0c	0.5 ... 200.0	0.1		3426362	

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CS4MA2	0.01 ... 2.00	0.01	4 ... 20 mA	12...30 V DC R: 50Ω ... 900Ω	3426303
CS4MA5	0.01 ... 5.00	0.01			3426304
CS4MA10	0.01 ... 10.00	0.01			3426305
CS4MA20	0.01 ... 20.00	0.01			3426306
CS4MA200	0.5 ... 200.0	0.1			3426307
CS4MA2-M12	0.01 ... 2.00	0.01	4 ... 20 mA	12...30 V DC R: 50Ω ... 900Ω	3426313
CS4MA5-M12	0.01 ... 5.00	0.01			3426314
CS4MA10-M12	0.01 ... 10.00	0.01			3426315
CS4MA20-M12	0.01 ... 20.00	0.01			3426316
CS4MA200-M12	0.5 ... 200.0	0.1			3426317

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CS4H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CS4N	-100 mV/ppm		
CS4L	-10 mV/ppm		
CS4H-An	-1000 mV/ppm		
CS4N-An	-100 mV/ppm		
CS4L-An	-10 mV/ppm		
CS4H-M1c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
CS4N-M1c			
CS4L-M1c			
CS4 MA2	8.0 mA/ppm	2-pole terminal	
CS4 MA5	3.2 mA/ppm		
CS4 MA10	1.6 mA/ppm		
CS4 MA20	0.8 mA/ppm		
CS4 MA200	0.08 mA/ppm		
CS4 MA2-M12	8.0 mA/ppm	M12 female	
CS4 MA5-M12	3.2 mA/ppm		
CS4 MA10-M12	1.6 mA/ppm		
CS4 MA20-M12	0.8 mA/ppm		
CS4 MA200-M12	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 M48.4E	CS4 all types	9026023
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