

1.1.1 DOSASens Chlorine Sensor CL4.2

Chlorine sensor with membrane-covered, amperometric 2-electrode system. For the measurement of free inorganic chlorine at constant pH.



Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine gas), chlorine generated by membrane-electrolysis,
- Calibration: at the controller, via analytical chlorine determination by DPD-1 method,
- Interferences: ClO₂ is being registered with factor 9 of its measured value; O₃ is registered; with membrane-less chlorine electrolysis interferences may occur,
- pH range: 6 ... 8,
- Pressure range: 0 ... 1 bar, no pressure surges or fluctuations,
- Temperature range: 0 ... 45 °C ,
- Integrated automatic temperature compensation
- Response time: T₉₀ ca. 30 seconds,
- 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 and semipermeable membrane,

Areas of application:

- Fresh water free of surfactants and with constant pH

Scope of supply:

- **CL4.2:** sensor, membrane cap, electrolyte

Ordering data:

Type: Chlorine sensor CL4.2	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CL4.2H	0.005 ... 2.000	0.001	0 ...-2000 mV 1 kΩ	±5 ... ± 15 V DC 10 mA	3326210
CL4.2DW	0.005 ... 5.00	0.001			3326211
CL4.2N	0.05 ... 20.00	0.01			3326212
CL4.2L	0.5 ... 200.0	0.1			3326033
CL4.2H-An	0.005 ... 2.000	0.001		9 ...30 V DC approx. 20 ... 56 mA	3326215
CL4.2N-An	0.05 ... 20.00	0.01			3326216
CL4.2L-An	0.5 ... 200.0	0.1			3326217
CL4.2H-M0c	0.005 ... 2.000	0.001	3326225		
CL4.2N-M0c	0.05 ... 20.00	0.01	3326226		
CL4.2L-M0c	0.5 ... 200.0	0.1	Modbus RTU	3326227	

Ordering data:

CL4.2MA0,5	0.01 ... 0.50	0.01	4 ... 20 mA	12...30 VDC Ri: 50 ... 900 Ω	3326240
CL4.2MA2	0.01 ... 2.00	0.01			3326241
CL4.2MA5	0.01 ... 5.00	0.01			3326242
CL4.2MA10	0.01 ... 10.00	0.01			3326243
CL4.2MA20	0.01 ... 20.00	0.01			3326244
CL4.2MA-100	0.1 ... 100	0.1			3326245
CL4.2MA-200	0,1 ... 200	0,1			3326246
CL4.2MA0,5-M12	0.01 ... 0.50	0.01	4 ... 20 mA	12...30 VDC Ri: 50 ... 900 Ω	3326250
CL4.2MA2-M12	0.01 ... 2.00	0.01			3326251
CL4.2MA5-M12	0.01 ... 5.00	0.01			3326252
CL4.2MA10-M12	0.01 ... 10.00	0.01			3326253
CL4.2MA20-M12	0.01 ... 20.00	0.01			3326254
CL4.2MA-100-M12	0.1 ... 100	0.1			3326255
CL4.2MA-200-M12	0.1 ... 200	0.1			3326256

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
Chlorine sensor CL4.2			
CL4.2H	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.
CL4.2DW	-300 mV/ppm		
CL4.2N	-100 mV/ppm		
CL4.2L	-10 mV/ppm		
CL4.2H-An	-1000 mV/ppm		
CL4.2N-An	-100 mV/ppm		
CL4.2L-An	-10 mV/ppm		
CL4.2H-M0c	Modbus RTU	M12 male	
CL4.2N-M0c			
CL4.2L-M0c			
CL4.2MA0,5	32.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CL4.2MA2	8.0 mA/ppm		
CL4.2MA5	3.20 mA/ppm		
CL4.2MA10	1.6 mA/ppm		
CL4.2MA20	0.8 mA/ppm		
CL4.2MA-100	0.16 mA/ppm		
CL4.2MA-200	0.08 mA/ppm		
CL4.2MA0,5-M12	32.0 mA/ppm	M12 male	
CL4.2MA2-M12	8.0 mA/ppm		
CL4.2MA5-M12	3.20 mA/ppm		
CL4.2MA10-M12	1.6 mA/ppm		
CL4.2MA20-M12	0.8 mA/ppm		
CL4.2MA-100-M12	0.16 mA/ppm		
CL4.2MA-200-M12	0.08 mA/ppm		

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09-08-2016

Spare parts:

Spare part:	For sensor type:	Item number:
Membrane cap M20.2	CL4.2 all types	9026001
Electrolyte ECL1	CL4.2 all types	9026050

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