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**DOSASens Chlorine dioxide sensor CD4.2**

Sensor for the measurement of chlorine dioxide. Membrane-covered, amperometric 2-electrode system.



**Product description:**

- Measurand(s): chlorine dioxide
- Calibration: at the controller, am Controller, via analytical chlorine-dioxide determination by DPD-1 method
- Interferences:
  - Cl<sub>2</sub> is being registered with factor 0.35 of ist measured value
  - O<sub>3</sub> is also registered
- pH range: 1 – 12, or the beginning of decomposition of chlorine dioxide at/over pH 12
- Pressure range:
  - Operation without circlip: 0 ... 0.5 bar, no pressure surges and/or vibrations
  - Operation with circlip: 0 ... 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0 – 45 °C  
(no ice crystals in measurement water)
- Integrated automatic temperature compensation  
(Temperature jumps must be avoided)
- Response time: T<sub>90</sub> approx. 15 s
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 – 30 l/h, low flow-dependence
- Shaft length: standard 190 mm, and up to 220 mm in length (mA-Version),
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U, semipermeable membrane

**Areas of application:**

- Swimming pool water, drinking water, service water, process water  
(surfactants must not be contained).

**Scope of supply:**

- DOSASens CD4.2 sensor, membrane cap, electrolyte, instruction manual

**Ordering data:**

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD4.2H-M12	0.005–2.000	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3626180
CD4.2N-M12	0.05–20.00	0.01			3626181
CD4.2H-An-M12	0.005–2.000	0.001	Modbus RTU	9–30 VDC 20–56 mA	3626190
CD4.2N-An-M12	0.05–20.00	0.01			3626191
CD4.2H-M0c	0.005–2.000	0.001	4–20 mA	12–30 VDC R <sub>L</sub> = 50–900 Ω	3326465
CD4.2N-M0c	0.05–20.00	0.01			3326466
CD4.2MA0,5	0.005–0.500	0.001	4–20 mA	12–30 VDC R <sub>L</sub> = 50–900 Ω	3326480
CD4.2MA2	0.05–2.00	0.01			3326481
CD4.2MA5	0.05–5.00	0.01			3326482
CD4.2MA10	0.05–10.00	0.01			3326483
CD4.2MA20	0.05–20.00	0.01			3326484
CD4.2MA0,5-M12	0.005–0.500	0.001			3326490
CD4.2MA2-M12	0.05–2.00	0.01			3326491
CD4.2MA5-M12	0.05–5.00	0.01			3326492
CD4.2MA10-M12	0.05–10.00	0.01			3326493
CD4.2MA20-M12	0.05–20.00	0.01			3326494

Subject to technical modifications and printing errors. Images may vary slightly from actual product.  
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**Additional technical data:**

Type:	Slope:	Connection:	Special characteristics:
CD4.2H-M12	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
CD4.2N-M12	-100 mV/ppm		
CD4.2H-An-M12	-1000 mV/ppm		
CD4.2N-An-M12	-100 mV/ppm		
CD4.2H-M0c	Modbus RTU		-
CD4.2N-M0c			
CD4.2MA0.5	32.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CD4.2MA2	8.0 mA/ppm		
CD4.2MA5	3.2 mA/ppm		
CD4.2MA10	1.6 mA/ppm		
CD4.2MA20	0,8 mA/ppm	5-pin M12 screwed plug	
CD4.2MA0.5-M12	32.0 mA/ppm		
CD4.2MA2-M12	8.0 mA/ppm		
CD4.2MA5-M12	3.2 mA/ppm		
CD4.2MA10-M12	1.6 mA/ppm		
CD4.2MA20-M12	0,8 mA/ppm		

**Spare parts:**

Spare parts:	for sensor type:	Item number:
Membrane cap M20.2	CD4.2 all types	9026001
Electrolyte ECD4 – ECD7/W	CD4.2 all types	9026073

**Accessories:**

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and mA Tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231060