

## 1.1.1 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 0,03 of ist measured value, O<sub>3</sub> is also registered
- pH range: 1 ... 11
- Pressure range: 0 ... 1 bar, no pressure surges and/or fluctuations
- Temperature range: 0 ... 45 °C (no ice crystals in measurement water)
- Integrated automatic temperature compensation
- Response time: T<sub>90</sub> approx. 15 s
- 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, semipermeable membrane

### Areas of application:

- Fresh water, surfactants must not be contained

### Scope of supply:

- **CD4.2:** sensor, membrane cap, electrolyte

### Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD4.2H	0.005 ... 2.000	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3326450
CD4.2N	0.05 ... 20.00	0.01			3326451
CD4.2H-An	0.005 ... 2.000	0.001		9 ... 30 VDC 20 ... 56 mA	3326455
CD4.2N-An	0.05 ... 20.00	0.01			3326456
CD4.2H-M0c	0.005 ... 2.000	0.001	Modbus RTU		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 RL 50Ω ... 900Ω	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
CD4.2MA0,5-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

**Additional technical data:**

Type:	Slope:	Connection:	Special characteristics:
CD4.2H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply
CD4.2N	-100 mV/ppm		
CD4.2H-An	-1000 mV/ppm		
CD4.2N-An	-100 mV/ppm		
CD4.2H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply
CD4.2N-M0c			
CD4.2MA0.5	32.0 mA/ppm	2 pole terminal	
CD4.2MA2	8.0 mA/ppm		
CD4.2MA5	3.2 mA/ppm		
CD4.2MA10	1.6 mA/ppm		
CD4.2MA0.5-M12	32.0 mA/ppm	M12 female	
CD4.2MA2-M12	8.0 mA/ppm		
CD4.2MA5-M12	3.2 mA/ppm		
CD4.2MA10-M12	1.6 mA/ppm		

**Spare parts:**

Spare part:	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:	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