

1.1.1.

DOSASens Chlorine dioxide sensor CD10.1

Sensor for the measurement of chlorine dioxide. Membrane-covered, amperometric, 2-electrode measuring system. The membrane system is mechanically robust and it is largely tensile resistant.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, via analytical chlorine dioxide determination by DPD-1 method
- Interferences:
 - O₃ is measured with factor 25 to ClO₂
 - Cl₂ is factor 0,1
- pH 1 – pH 12 or beginning decay of chlorine dioxide from/above 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– 50 °C (not any ice crystal in water)
- Integrated automatic temperature compensation, 5 °C per hour, Temperature jumps are to be avoided
- Response time: T₉₀ approx. 60 s
- Absence of the disinfectant: max. 24 h
- Flow rate: ca. 15 – 30 l/h, low flow-dependence
- Shaft length: standard 190 mm, and up to 220 mm in length (in mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U, stainless steel 1.4571

Areas of application:

- All types of water treatment, including seawater (e.g. bottle washing machine, CIP system, rinser). The membrane system is mechanically robust and it is largely resistant to surfactants.

Scope of supply:

- **DOSASens CD10.1** sensor, membrane cap, electrolyte, operating instructions

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD10.1H-M12-M12	0.005 ... 2.00	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3626200
CD10.1N-M12-M12	0.05 ... 20.00	0.01			3626201
CD10.1L-M12-M12	0.5 ... 200	0.1			3626202
CD10.1H-An-M12	0.005 ... 2.00	0.001			3626210
CD10.1N-An-M12	0.05 ... 20.0	0.01			3626211
CD10.1L-An-M12	0.5 ... 200	0.1			3626212
CD10.1H-M0c	0.005 ... 2.00	0.001	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3226415
CD10.1N-M0c	0.05 ... 20.00	0.01			3226416
CD10.1L-M0c	0.5 ... 200	0.1			3226417
CD10.1MA0.5	0.005 ... 0.50	0.001	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3226403
CD10.1MA2	0.005 ... 2.00	0.001			3226404
CD10.1MA5	0.05 ... 5.00	0.01			3226405
CD10.1MA10	0.05 ... 10.00	0.01			3226406

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

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply	Item number:
CD10.1MA20	0.05 ... 20.00	0.01	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3226407
CD10.1MA200	0.5 ... 200.00	0.1			3226408
CD10.1MA0.5-M12	0.005 ... 0.50	0.001			3226409
CD10.1MA2-M12	0.005 ... 2.00	0.001			3226410
CD10.1MA5-M12	0.05 ... 5.00	0.01			3226411
CD10.1MA10-M12	0.05 ... 10.00	0.01			3226412
CD10.1MA20-M12	0.05 ... 20.00	0.01			3226413
CD10.1MA200-M12	0.5 ... 200.00	0.1			3226414

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CD10.1H-M12	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
CD10.1N-M12	-100 mV/ppm		
CD10.1L-M12	-10 mV/ppm		
CD10.1H-An-M12	-1000 mV/ppm		
CD10.1N-An-M12	-100 mV/ppm		
CD10.1L-An-M12	-10 mV/ppm		
CD10.1H-M0c	Modbus RTU		
CD10.1N-M0c			
CD10.1L-M0c			
CD10.1MA0.5	32,0 mA/ppm		
CD10.1MA2	8,0 mA/ppm		
CD10.1MA5	3,2 mA/ppm		
CD10.1MA10	1,6 mA/ppm		
CD10.1MA20	0,8 mA/ppm		
CD10.1MA200	0,08 mA/ppm		
CD10.1MA0.5-M12	32,0 mA/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
CD10.1MA2-M12	8,0 mA/ppm		
CD10.1MA5-M12	3,2 mA/ppm		
CD10.1MA10-M12	1,6 mA/ppm		
CD10.1MA20-M12	0,8 mA/ppm		
CD10.1MA200-M12	0,08 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.3 N	CD10.1 all types	9026028
Electrolyt ECD4 – ECD7/W	CD10.1 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 und mA tester	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, chlorine dioxide	90231000