

## 1.1.1 DOSASens Chlorine dioxide Sensor CD7

Sensor for the measurement of chlorine dioxide, amperometric 2-electrode system with surfactant-resistant membrane.



### Product description:

- Measurand(s): Chlorine dioxide
- Calibration: at the controller, via analytical chlorine dioxide determination by DPD-1 method
- Interferences: O<sub>3</sub> is measured with a 25-times higher sensitivity as ClO<sub>2</sub>, Cl<sub>2</sub> does not interfere
- pH range: 1 ... 11
- Pressure range: 0 ... 1 bar, no pressure surges and/or fluctuations
- Temperature range: 0 ... 50 °C, (no ice crystals in test water allowed)
- Integrated automatic temperature compensation
- Response time: T<sub>90</sub> approx. 90s
- 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, stainless steel 1.4571, semipermeable membrane

### Areas of application:

- All types of water treatment

### Scope of supply:

- **CD7:** sensor, membrane cap, electrolyte

### Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD7H	0.005 ... 2.000	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3326049
CD7N	0.05 ... 20.00	0.01			3326044
CD7L	0.5 ... 200.0	0.1			3326087
CD7H-An	0.005 ... 2.000	0.001		9 ... 30 VDC 20 ... 56 mA	3326560
CD7N-An	0.05 ... 20.00	0.01			3326561
CD7L-An	0.5 ... 200.0	0.1			3326562
CD7H-M0c	0.005 ... 2.000	0.001	Modbus RTU	3226620	
CD7N-M0c	0.05 ... 20.00	0.01		3226621	
CD7L-M0c	0.5 ... 200.0	0.1		3226622	

## Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CD7MA0.5	0 ... 0.50	0.01	4 ... 20 mA	12 ... 30 VDC RL 50Ω ... 900Ω	3326045
CD7MA2	0 ... 2.00	0.01			3326046
CD7MA5	0 ... 5.00	0.01			3326047
CD7MA10	0 ... 10.00	0.01			3326048
CD7MA20	0 ... 20.00	0.01			3326086
CD7MA200	0.5 ... 200.00	0.1			3326104
CD7MA0.5-M12	0 ... 0.50	0.01			3226610
CD7MA2-M12	0 ... 2.00	0.01			3226611
CD7MA5-M12	0 ... 5.00	0.01			3226612
CD7MA10-M12	0 ... 10.00	0.01			3226613
CD7MA20-M12	0 ... 20.00	0.01			3226614
CD7MA200-M12	0.5 ... 200.00	0.1			3226615

## Additional technical data:

Typ:	Slope:	Connection:	Special characteristics:
CD7H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
CD7N	-100 mV/ppm		
CD7L	-10 mV/ppm		
CD7H-An	-1000 mV/ppm		
CD7N-An	-100 mV/ppm		
CD7L-An	-10 mV/ppm		
CD7H-M0c	Modbus RTU	M12 female	Connection only to a controller with galvanically separated power supply.
CD7N-M0c			
CD7L-M0c			
CD7MA0.5	32.0 mA/ppm	2 pole terminal	
CD7MA2	8.0 mA/ppm		
CD7MA5	3.2 mA/ppm		
CD7MA10	1.6 mA/ppm		
CD7MA20	0.8 mA/ppm		
CD7MA200	0.08 mA/ppm		
CD7MA0.5-M12	32.0 mA/ppm	M12 female	
CD7MA2-M12	8.0 mA/ppm		
CD7MA5-M12	3.2 mA/ppm		
CD7MA10-M12	1.6 mA/ppm		
CD7MA20-M12	0.8 mA/ppm		
CD7MA200-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:	Item number:
Membrane cap M7N	<b>CD7</b> (all types except CD7L)	9026010
Membrane cap M7L	<b>CD7L</b>	9026012
Electrolyte ECD4 - ECD7/W	<b>CD7</b> (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	90231060