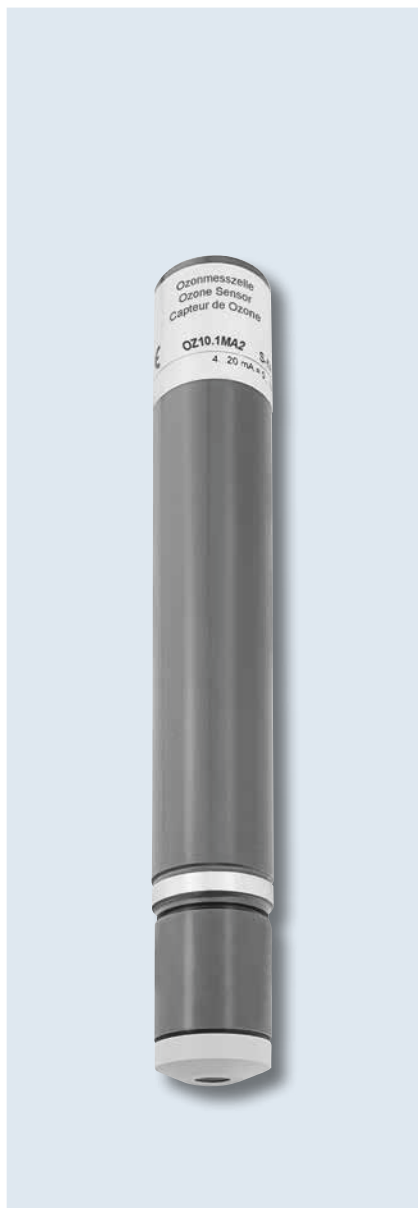


DOSA*Sens* Ozone sensor OZ10.1

Ozone sensor with membrane-covered, amperometric 2-electrode system. Sensor for the measurement of dissolved ozone in water.



Product description:

- Calibration: at the controller, analytical determination by DPD-method (DPD-4 method) when used in seawater the DPD-4 method (DPD-1 + DPD-3) is not selective for ozone.
- Interferences:
 - Cl₂ on OZ10.1H → increase of measuring value by 1.5%
 - Cl₂ on OZ10.1N → negligible
 - ClO₂ on OZ10.1N → increase of measuring value by 6.0%
- pH range: 4–9
- 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
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 8 min., Temperature jumps are to be avoided
- short run-in time
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- high durability of the zero point, thus increased service life
- hohe Signalstabilität bei Druckschwankungen und Vibrationen
- Shaft length: Standard 175 mm, and up to 220 mm (mA-Version)
- Connection: standard 4-pole plug; mA-Version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

Areas of application:

- Fresh water, fully desalinated water, reverse osmosis water, seawater, the membrane system is largely tensile resistant and mechanically robust.

Scope of supply:

- DOSA*Sens* OZ10.1 sensor, membrane cap, electrolyte, operating instructions

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ10.1H-M12	0.005–2.000	0.01	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3626280
OZ10.1N-M12	0.05–20.00	0.01			3626281
OZ10.1H-An-M12	0.005–2.000	0.01		9–30 VDC 20–56 mA	3626290
OZ10.1N-An-M12	0.05–20.00	0.01	Modbus RTU	9–30 VDC 20–56 mA	3626291
OZ10.1H-M0c	0.005–2.000	0.001			3226510
OZ10.1N-M0c	0.05–20.00	0.01	4–20 mA	12–30 VDC R _L = 50 to 900 Ω	3226511
OZ10.1MA0.5	0.005–0.500	0.001			3226515
OZ10.1MA2	0.005–2.00	0.001			3226516
OZ10.1MA5	0.05–5.00	0.01			3226517
OZ10.1MA10	0.05–10.00	0.01			3226518
OZ10.1MA20	0.05–20.00	0.01			3226519
OZ10.1MA0.5-M12	0.005–0.500	0.001			3226520

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ10.1MA2-M12	0.005–2.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3226521
OZ10.1MA5-M12	0.05–5.00				3226522
OZ10.1MA10-M12	0.05–10.00				3226523
OZ10.1MA20-M12	0.05–20.00				3226524

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:	
OZ10.1H-M12	-1000 mV/ppm	4-pole plug	Connection only to a controller with galvanically separated power supply.	
OZ10.1N-M12	-100 mV/ppm			
OZ10.1H-An-M12	-1000 mV/ppm			
OZ10.1N-An-M12	-100 mV/ppm			
OZ10.1H-M0c	Modbus RTU	M12 male	Connection only to a controller with galvanically separated power supply.	
OZ10.1N-M0c				
OZ10.1MA0.5	32.0 mA/ppm	2-pole terminal		
OZ10.1MA2				8.0 mA/ppm
OZ10.1MA5				3.2 mA/ppm
OZ10.1MA10				1.6 mA/ppm
OZ10.1MA20	0.8 mA/ppm	M12-plug		
OZ10.1MA0.5-M12	32.0 mA/ppm			
OZ10.1MA2-M12	8.0 mA/ppm			
OZ10.1MA5-M12	3.2 mA/ppm			
OZ10.1MA10-M12	1.6 mA/ppm			
OZ10.1MA20-M12	0.8 mA/ppm			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.3N grey	OZ10.1 all types	9026028
Electrolyte EOZ7/W	OZ10 all types	9026049

Accessories:

Type:	for sensor type:	Item number:
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, ozone	90231030