

1.1.1 DOSASens Ozonsensor OZ7

Sensor for the measurement of dissolved ozone in water – with surfactant-resistant membrane.



Product description:

- Measurand(s): Ozone
- Calibration: at the controller, analytical determination by DPD-method
- Interferences:
 - Cl₂: OZ7H: increase of measuring value by 1.5%
 - Cl₂: OZ7N: negligible
 - ClO₂: for OZ7N-version it leads to an increase of the measuring value of about 6 %
- pH range: 2 ... 11
- Pressure range: 0 ... 1 bar, no pressure surges and/or fluctuations
- Temperature range: 0 ... 45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 50 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, stainless steel 1.4571

Areas of application:

- Fresh water, salt water, also sea water; surfactants are tolerated

Scope of supply:

- **OZ7:** sensor, membrane cap, electrolyte,

Ordering data:

Typ:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ7H	0.005 ... 2.000	0.001	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3326054
OZ7N	0.05 ... 20.00	0.01			3326055
OZ7H-An	0.005 ... 2.000	0.001	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3226000
OZ7N-An	0.05 ... 20.00	0.01			3226001
OZ7H-M0c	0.005 ... 2.000	0.001	4 ... 20 mA	12 ... 30 VDC RL 50Ω ... 900Ω	3226040
OZ7N-M0c	0.05 ... 20.00	0.01			3226041
OZ7MA0,2	0.005 ... 0.20	0.01	4 ... 20 mA	12 ... 30 VDC RL 50Ω ... 900Ω	3326088
OZ7MA0,5	0.005 ... 0.50	0.01			3326058

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:
OZ7MA2	0,005 ... 2,00	0,01	4 ... 20 mA	12 – 30 V DC RL 50 Ω –...900 Ω	3326056
OZ7MA5	0.05 ... 5.00	0.01			3326059
OZ7MA10	0.05 ...10.00	0.01			3326077
OZ7MA20	0.05 ...20.00	0.01			3326103
OZ7MA0.2-M12	0.05 ... 0.20	0.01			3226030
OZ7MA0.5-M12	0.05 ... 0.50	0.01			3226031
OZ7MA2-M12	0.05 ... 2.00	0.01			3226032
OZ7MA5-M12	0.05 ... 5.00	0.01			3226033
OZ7MA10-M12	0.05 ...10.00	0.01			3226034
OZ7MA20-M12	0.05 ...20.00	0.01			3226035

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
OZ7H	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
OZ7N	-100 mV/ppm		
OZ7H-An	-1000 mV/ppm		
OZ7N-An	-100 mV/ppm		
OZ7H-M0c	Modbus RTU	M12 female	-
OZ7N-M0c			
OZ7MA0.2	80.0 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
OZ7MA0.5	32.0 mA/ppm		
OZ7MA2	8.0 mA/ppm		
OZ7MA5	3.2 mA/ppm		
OZ7MA10	1.6 mA/ppm		
OZ7MA20	0.8 mA/ppm		
OZ7MA0.2-M12	80.0 mA/ppm	M12 female	
OZ7MA0.5-M12	32.0 mA/ppm		
OZ7MA2-M12	8.0 mA/ppm		
OZ7MA5-M12	3.2 mA/ppm		
OZ7MA10-M12	1.6 mA/ppm		
OZ7MA20-M12	0.8 mA/ppm		

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Spare parts:

Spare part:	for sensor:	Item number:
Membrane cap M7N O3	OZ7H, OZ7MA0.2, OZ7MA0.5	9026011
Membrane cap M7D O3	OZ7N, OZ7MA2, OZ7MA5, OZ7MA10, OZ7MA20	9026013
Electrolyte EOZ7/W	OZ7 (all types)	9026049

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	90231030