

## 1.1.1 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:
  - Cl<sub>2</sub> OZ7H: increase of measuring value by 1.5%
  - Cl<sub>2</sub> OZ7N: negligible
  - ClO<sub>2</sub>: 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: T<sub>90</sub> approx. 50 s,
- Flow rate: approx. 30 l/h, low flow-dependence,
- Shaft length: 175 mm, mA-Version 220 mm,
- Connection: standard 4-pole plug, mA-version 2-pole terminal or 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:

Type: Ozone sensor OZ7	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			3226040
OZ7N-M0c	0.05 ... 20.00	0.01			3226041
OZ7MA0,2	0.05 ... 0.20	0.01	4 ... 20 mA	12 ... 30 VDC R <sub>L</sub> 50Ω ... 900Ω	3326088
OZ7MA0,5	0.05 ... 0.50	0.01			3326058

OZ7MA2	0.05 ... 2.00	0.01	4 ... 20 mA	12 ... 30 VDC R <sub>L</sub> 50Ω ... 900Ω	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: Ozone sensor OZ7	Slope:	Connection:	Special characteristics:
OZ7H	-1000 mV/ppm	4-pole 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 male	Connection only to a controller with galvanically separated power supply.
OZ7N-M0c			
OZ7MA0.2	80.0 mA/ppm	2-pole terminal	
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 male	
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		

### Spare parts:

Spare part:	For sensor type:	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	(10115)
mV-sensor-simulator	all sensors with mV signal	9026205
mA-sensor-simulator	all sensors with mA-signal	2125100
mV-simulator and mV-Tester	all sensors with mV signal	(10300)
mV-Simulator and mA-Tester	all sensors with mV-signal or mA-signal	(10305)
Photometer for Calibration	all sensors	
Reagent for photometer	all sensors	