1.1.1. DOSA*Sens* Ozone sensor **OZ1.2**

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

Product description:

- Measurand: ozone
- Calibration: at the controller, analytical determination by DPD-method
- Interferences:
  - Cl_2 is measured with factor 0.03 of its measuring value
  - ClO_2 is measured with factor 0.7 of its measuring value
- pH range: 2–11
- 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 (no ice crystals in mesurement water)
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 15 sec.
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Absence of the disinfectant: max. 24 h
- Shaft length: standard 190 mm, and up to 220 mm in length (mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC, semipermeable membrane

Areas of application:

- Swimming pool, drinking, service, process water, surfactants must not be contained.

Scope of supply:

- DOSA*Sens* **OZ1.2** sensor, membrane cap, electrolyte, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ1.2**H-M12**	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3626260
OZ1.2**N-M12**	0.05–20.00	0.01			3626261
OZ1.2**H-An-M12**	0.005–2.00	0.001		9–30 VDC 20–56 mA	3626270
OZ1.2**N-An-M12**	0.05–20.00	0.01			3626271
OZ1.2**H-M0c**	0.005–2.00	0.001	Modbus RTU		3426530
OZ1.2**N-M0c**	0.05–20.00	0.01			3426531
OZ1.2**MA0,5**	0.001–0.50	0.001	4–20 mA	12–30 VDC R_L = 50 to 900 Ω	3426550
OZ1.2**MA2**	0.01–2.00	0.01			3426551
OZ1.2**MA5**	0.01–5.00	0.01			3426552
OZ1.2**MA10**	0.01–10.00	0.01			3426553
OZ1.2**MA20**	0.01–20.00	0.01			3426554
OZ1.2**MA0,5-M12**	0.001–0.50	0.001			3426520

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:
OZ1.2**MA2-M12**	0.01 – 2.00	0.01	4 – 20 mA	12 – 30 VDC R_L = 50 – 900 Ω	3426521
OZ1.2**MA5-M12**	0.01 – 5.00	0.01			3426522
OZ1.2**MA10-M12**	0.01 – 10.00	0.01			3426523
OZ1.2**MA20-M12**	0.01 – 20.00	0.01			3426524

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
OZ1.2**H-M12**	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
OZ1.2**N-M12**	-100 mV/ppm		
OZ1.2**H-An-M12**	-1000 mV/ppm		-
OZ1.2**N-An-M12**	-100 mV/ppm		
OZ1.2**H-M0c**	Modbus RTU		
OZ1.2**N-M0c**			
OZ1.2**MA0.5**	32.0 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
OZ1.2**MA2**	8.0 mA/ppm		
OZ1.2**MA5**	3.2 mA/ppm		
OZ1.2**MA10**	1.6 mA/ppm		
OZ1.2**MA20**	0.8 mA/ppm		
OZ1.2**MA0.5-M12**	32.0 mA/ppm	5-pin M12 screwed plug	
OZ1.2**MA2-M12**	8.0 mA/ppm		
OZ1.2**MA5-M12**	3.2 mA/ppm		
OZ1.2**MA10-M12**	1.6 mA/ppm		
OZ1.2**MA20-M12**	0.8 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap **M20.2**	**OZ1.2** all types	9026001
Electrolyte **EOZ1**	**OZ1.2** all types	9026054

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 and **mA Tester**	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, ozone	90231030