

DOSASens 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 measurement 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 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, semipermeable membrane

Areas of application:

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

Scope of supply:

- DOSASens OZ1.2 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

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

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
OZ1.2MA2-M12	0.01 – 2.00	0.01	4–20 mA	12–30 VDC R _L = 50–900 Ω	3426521
OZ1.2MA5-M12	0.01 – 5.00	0.01			3426522
OZ1.2MA10-M12	0.01 – 10.00	0.01			3426523
OZ1.2MA20-M12	0.01 – 20.00	0.01			3426524

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
OZ1.2H-M12	-1000 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
OZ1.2N-M12	-100 mV/ppm		
OZ1.2H-An-M12	-1000 mV/ppm		
OZ1.2N-An-M12	-100 mV/ppm		
OZ1.2H-M0c	Modbus RTU	M12 male	Connection only to a controller with galvanically separated power supply.
OZ1.2N-M0c		M12 male	
OZ1.2MA0.5	32.0 mA/ppm	2 pole terminal	
OZ1.2MA2	8.0 mA/ppm		
OZ1.2MA5	3.2 mA/ppm		
OZ1.2MA10	1.6 mA/ppm		
OZ1.2MA20	0.8 mA/ppm		
OZ1.2MA0.5-M12	32.0 mA/ppm	M12 male	
OZ1.2MA2-M12	8.0 mA/ppm		
OZ1.2MA5-M12	3.2 mA/ppm		
OZ1.2MA10-M12	1.6 mA/ppm		
OZ1.2MA20-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