

1.1.1 DOSASens Ozone Sensor OZ10

Sensor for the measurement of dissolved ozone in water.



Product description:

- Measurand(s): Ozone
- Calibration: at the controller, analytical determination by DPD-method
- Interferences:
 - Cl₂ an OZ10H: increase of measuring value by 1.5%
 - Cl₂ an OZ10N: negligible
 - ClO₂ an OZ10N 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. 15 sec.
- Flow rate: approx. 30 l/h, low flow-dependence,
- 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, semipermeable membrane for mA-version 2-pole terminal

Areas of application:

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

Scope of supply:

- **OZ10:** sensor, membrane cap, electrolyte

Ordering data:

| Type: | Measuring range: ppm | Resolution: ppm | Output signal: | Power supply: | Item number: |
|---------------|-------------------------|--------------------|------------------------|----------------------------------|--------------|
| OZ10H | 0.005 ... 2.000 | 0.01 | 0 ... -2000 mV 1 kΩ | ±5 ... ±15 VDC 10 mA | 3426400 |
| OZ10N | 0.05 ... 20.00 | 0.01 | | | 3426401 |
| OZ10H-An | 0.005 ... 2.000 | 0.01 | | 9 ... 30 VDC 20 ... 56 mA | 3426405 |
| OZ10N-An | 0.05 ... 20.00 | 0.01 | | | 3426406 |
| OZ10H-M0c | 0.005 ... 2.000 | 0.01 | Modbus RTU | 9 ... 30 VDC 20 ... 56 mA | 3426410 |
| OZ10N-M0c | 0.05 ... 20.00 | 0.01 | | | 3426411 |
| OZ10MA0,5 | 0.05 ... 0.500 | 0.01 | 4 ... 20 mA | 12 ... 30 VDC RL 50Ω ... 900Ω | 3426415 |
| OZ10MA2 | 0.05 ... 2.00 | 0.01 | | | 3426416 |
| OZ10MA5 | 0.05 ... 5.00 | 0.01 | | | 3426417 |
| OZ10MA10 | 0.05 ... 10.00 | 0.01 | | | 3426418 |
| OZ10MA20 | 0.05 ... 20.00 | 0.01 | | | 3426419 |
| OZ10MA0,5-M12 | 0.05 ... 0.500 | 0.01 | | | 3426420 |
| OZ10MA2-M12 | 0.05 ... 2.00 | 0.01 | | | 3426421 |
| OZ10MA5-M12 | 0.05 ... 5.00 | 0.01 | | | 3426422 |
| OZ10MA10-M12 | 0.05 ... 10.00 | 0.01 | | | 3426423 |
| OZ10MA20-M12 | 0.05 ... 20.00 | 0.01 | | | 3426424 |

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
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Additional technical data:

| Type: | Slope: | Connection: | Special characteristics: |
|---------------|--------------|-----------------|--|
| OZ10H | -1000 mV/ppm | 4-pole plug | Connection only to a controller with galvanically separated power supply |
| OZ10N | -100 mV/ppm | | |
| OZ10H-An | -1000 mV/ppm | | |
| OZ10N-An | -100 mV/ppm | | |
| OZ10H-M1c | Modbus RTU | M12 male | - |
| OZ10N-M1c | | | |
| OZ10MA0.5 | 32.0 mA/ppm | 2-pole terminal | Connection only to a controller with galvanically separated power supply |
| OZ10MA2 | 8.0 mA/ppm | | |
| OZ10MA5 | 3.2 mA/ppm | | |
| OZ10MA10 | 1.6 mA/ppm | | |
| OZ10MA20 | 0.8 mA/ppm | | |
| OZ10MA0.5-M12 | 32.0 mA/ppm | M12-Buchse | |
| OZ10MA2-M12 | 8.0 mA/ppm | | |
| OZ10MA5-M12 | 3.2 mA/ppm | | |
| OZ10MA10-M12 | 1.6 mA/ppm | | |
| OZ10MA20-M12 | 0.8 mA/ppm | | |

Spare parts:

| Spare part: | for sensor: | Item number: |
|---------------------------------|-------------------------|--------------|
| Membrane cap M10G O3 + G-Holder | OZ10 (all types) | 9026019 |
| Electrolyte EOZ7/W | OZ10 (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 |