

	<h1>TARAtec</h1> <h1>OZ10.1</h1>	
Max. allowed working pressure	Operation without retaining ring:	0.5 bar, no pressure impulses and/or vibrations
	Operation with retaining ring:	1.0 bar, no pressure impulses and/or vibrations
Flow rate	approx. 15-30 l/h in TARAflow FLC, small flow rate dependence is given	
pH-range	pH 4 – pH 9	
Run-in time	First start-up approx. 1 h	
Response time	T ₉₀ : approx. 8 min.	
Zero point adjustment	Not necessary	
Slope calibration	At the device, by analytical determination, e. g. DPD-4 method (DPD-1 + DPD-3)	
	Advice: when used in sea water DPD-4 method (DPD-1 + DPD-3) is not selective to ozone	
interferences	Cl ₂ : OZ10.1H: factor 0.015 OZ10.1N: negligible ClO ₂ : OZ10.1N: factor 0.06	
Absence of the disinfectant	Max. 24 h	
Connection	analog-out/analog version: 4-pole plug adapter analog-out/digital version: 4-pole plug adapter digital-out/digital version: 5-pole M12, plug-on flange 4-20 mA version: 2-pole terminal or 5-pole M12, plug-on flange	
material	PVC-U, stainless steel 1.4571	
Size	diameter: approx. 25 mm	
	Length: analog-out/analog version approx. 175 mm analog-out/digital version approx. 195 mm digital-out/digital version approx. 205 mm 4-20 mA version approx. 220 mm (2-pole-terminal) approx. 190 mm (5-pole-M12)	
Transport	+5 ... +50 °C (Sensor, electrolyte, membrane cap)	
storage	Sensor: dry and without electrolyte no limit at +5 ... +40 °C	
	Electrolyte: in original bottle protected from sunlight at +5 ... +35 °C min. 1 year or until specified EXP-Date	
	Membrane cap: in original packing no limit at +5 ... +40 °C (used membrane caps can not be stored)	


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<p>maintenance</p>	<p>Regularly control of the measuring signal, min. once a week The following specifications depend on the water quality: Change of the membrane cap: once a year Change of the electrolyte: every 3 - 6 months</p>
	<p>EMC-Testing DIN EN 61326-1, 61326-2-3 RoHS compliant</p>

Technical Data

1. OZ10.1 (Analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is necessary as the sensor electronic is not equipped with a galvanical isolation.


	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope in mV/ppm	Voltage supply	Connection
OZ10.1H	0.005...2.000	0.001	0...-2000 mV 1 kΩ	-1000	±5 - ±15 VDC 10 mA	4-pole screw connector
OZ10.1N	0.05...20.00	0.01		-100		
OZ10.1HUp	0.005...2.000	0.001	0...+2000 mV 1 kΩ	+1000	10 - 30 VDC 10 mA	
OZ10.1Up	0.05...20.00	0.01		+100		

(Subject to technical changes!)

2. OZ10.1 (analog output, digital internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.


	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal Slope in mV/ppm	Power supply	Connection
OZ10.1H-An	0.005...2.000	0.001	analog 0...-2 V (max. -2.5 V)	-1000	9-30 VDC approx. 56-20 mA	4-pole screw connector
OZ10.1N-An	0.05...20.00	0.01	1 kΩ	-100		
OZ10.1H-Ap	0.005...2.000	0.001	analog 0...+2 V (max. +2.5 V)	+1000		
OZ10.1N-Ap	0.05...20.00	0.01	1 kΩ	+100		

(Subject to technical changes!)

3. OZ10.1 (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

	Measuring range	Resolution	Output Output resistance	Power supply	Connection
	in ppm	in ppm			
OZ10.1H-M0c	0.005...2.000	0.001	Modbus RTU	9-30 VDC	5-pole M12 connector
OZ10.1N-M0c	0.05...20.00	0.01	There are no terminating resistors in the sensor.	approx. 56-20 mA	

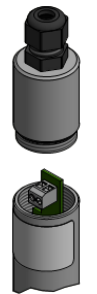
(Subject to technical changes!)

4. OZ10.1 4-20 mA (Analog output, analog internal signal processing)

analog-out / analog


A potential-free electrical connection is necessary as the sensor electronic is not equipped with a galvanical isolation.

4.1 Electrical connection: 2 pole terminal clamp

	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Connection
	in ppm	in ppm		in mA/ppm		
OZ10.1MA0.5	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R _L = 50Ω (12V) ... R _L 900Ω (30V)	2-pole terminal (2 x 1 mm ²) Recommended: Round cable ∅ 4 mm 2 x 0.34 mm ²
OZ10.1MA2	0.005...2.000	0.001		8.0		
OZ10.1MA5	0.05...5.00	0.01		3.2		
OZ10.1MA10	0.05...10.00	0.01		1.6		
OZ10.1MA20	0.05...20.00	0.01		0.8		

(Subject to technical changes!)

4.2 Electrical connection: 5 pole M12 plug-on flange

	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Connection
	in ppm	in ppm		in mA/ppm		
OZ10.1MA0.5-M12	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R _L = 50Ω (12V) ... R _L 900Ω (30V)	5-pole M12 plug-on flange Function of wires: PIN2: +U PIN3: -U
OZ10.1MA2-M12	0.005...2.000	0.001		8.0		
OZ10.1MA5-M12	0.05...5.00	0.01		3.2		
OZ10.1MA10-M12	0.05...10.00	0.01		1.6		
OZ10.1MA20-M12	0.05...20.00	0.01		0.8		

(Subject to technical changes!)

Spare Parts

Type	Membrane cap	Electrolyte	Emery	O-ring
All OZ10.1	M10.3N Art. no. 11057	EOZ7/W, 100 ml Art. no. 11102	S2 Art. no. 11906	20 x 1.5 silicone Art. no. 11803

(Subject to technical changes!)

Slope of TARAtec OZ10.1 versus Flow

Temperature: 25°C / pH value: 7.2 / Ozone: 0.2 ppm

