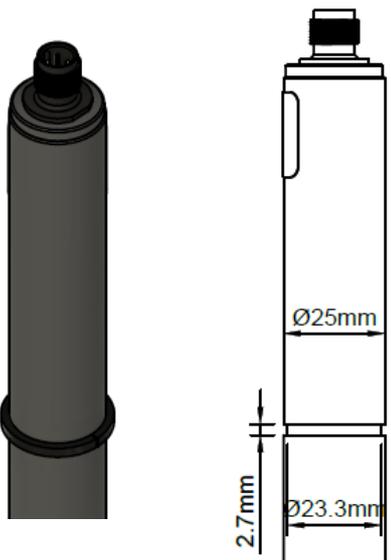


	<h1>TARAbase OZ1.2</h1>
indicator	ozone
Application	Swimming pool water, drinking water, service water, process water The water must not contain any surfactants (tensides)!
Measuring system	Membrane covered, amperometric 2-electrode system
Electronic	<p>Analog version:</p> <ul style="list-style-type: none"> - voltage output - not galvanically isolated electronics - analog internal data processing - output signal: analog (analog-out/analog) <p>Digital version:</p> <ul style="list-style-type: none"> - electronic is completely galvanically isolated - digital internal data processing - output signal: analog (analog-out/digital) or digital (digital-out/digital) <p>mA-version:</p> <ul style="list-style-type: none"> - current output analog - not galvanically isolated electronics - output signal: analog (analog-out/analog)
Information about the measuring range	<p>The actual slope of a sensor can vary production-related between 65% and 150% of the nominal slope</p> <p>Note: With a slope > 100% the measuring range is reduced accordingly. (Ex.: 150% slope → 67% of the specified measuring range)</p>
Slope drift At repeatability conditions (25 °C, pH 7,2 in drinking water)	approx. <-1% per month
Working temperature	Measuring water temperature: 0 ... +45 °C (no ice crystals in the measuring water)
	Ambient temperature: 0 ... +55 °C
Temperature compensation	Automatically, by an integrated temperature sensor Sudden temperature changes must be avoided
Max. allowed working pressure	Operation without retaining ring: <ul style="list-style-type: none"> - 0.5 bar - no pressure impulses and/or vibrations
	Operation with retaining ring in TARAflow FLC: <ul style="list-style-type: none"> - 1.0 bar, - no pressure impulses and/or vibrations (see option 1)
Flow rate (Incoming flow velocity)	approx. 15-30L/h (33 – 66 cm/s) in TARAflow FLC, small flow rate dependence is given

	<h1>TARAbase OZ1.2</h1>
<p>storage</p>	<p>Sensor: dry and without electrolyte no limit at +5 ... +40 °C</p> <p>Electrolyte: in original bottle protected from sunlight at +5 ... +35 °C min. 1 year or until specified EXP-Date</p> <p>Membrane cap: in original packing no limit at +5 ... +40 °C (used membrane caps can not be stored)</p>
<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 (depending on the water quality) Change of the electrolyte: every 3 - 6 months</p>
	<p>EMC tested RoHS compliant</p>

<p>Option 1: Retaining ring</p>	<ul style="list-style-type: none"> - When operating with pressures >0.5 bar in TARAflow FLC - Dimensions retaining ring 29 x 23.4 x 2.5 mm, slitted, PETP - Different positions for groove selectable (on request) 	
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Technical Data

1. OZ1.2 (analog output, analog internal signal processing)

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

	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Connection
	in ppm	in ppm		in mV/ppm		
OZ1.2H-M12	0.005...2.000	0.001	0...-2000 mV 1 kΩ	-1000	±5 - ±15 VDC 10 mA	5-pole M12 plug-on flange Function of wires: PIN1: measuring signal PIN2: +U PIN3: -U PIN4: signal GND PIN5: n. c.
OZ1.2N-M12	0.05...20.00	0.01		-100		
OZ1.2HUp-M12	0.005...2.000	0.001	0...+2000 mV 1 kΩ	+1000	10 - 30 VDC 10 mA	5-pole M12 plug-on flange Function of wires: PIN1: measuring signal PIN2: +U PIN3: power GND PIN4: signal GND PIN5: n. c.
OZ1.2NUp-M12	0.05...20.00	0.01		+100		

(Subject to technical changes!)

2. OZ1.2 (analog output, digital 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	Resolution	Output Output resistance	Nominal Slope	Power supply	Connection
	in ppm	in ppm		in mV/ppm		
OZ1.2H-An-M12	0.005...2.000	0.001	analog 0...-2 V (max. -2.5 V)	-1000	9-30 VDC	5-pole M12 plug-on flange Function of wires: PIN1: measuring signal PIN2: +U PIN3: power GND PIN4: signal GND PIN5: n. c.
OZ1.2N-An-M12	0.05...20.00	0.01	1 kΩ	-100		
OZ1.2H-Ap-M12	0.005...2.000	0.001	analog 0...+2 V (max. +2.5 V)	+1000	approx. 20-56 mA	
OZ1.2N-Ap-M12	0.05...20.00	0.01	1 kΩ	+100		

(Subject to technical changes!)

3. OZ1.2 (digital output, digital signal processing)

- 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	Power supply	Connection
OZ1.2H-M0c	0.005...2.000	0.001	Modbus RTU	9-30 VDC	5-pole M12 plug-on flange Function of wires: PIN1: reserved PIN2: +U PIN3: power GND PIN4: RS485B PIN5: RS485A
OZ1.2N-M0c	0.05...20.00	0.01	There are no terminating resistors in the sensor.	approx. 20-56 mA	

(Subject to technical changes!)

4. OZ1.2 4-20 mA (analog output, analog internal signal processing)

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 in ppm	Resolution in ppm	Output Output resistance	Nominal slope in mA/ppm	Voltage supply	Connection
OZ1.2MA0.5	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R _L 50Ω...R _L 900Ω	2-pole terminal (2 x 1 mm ²) Recommended: Round cable Ø 4 mm 2 x 0.34 mm ²
OZ1.2MA2	0.005...2.000	0.001		8.0		
OZ1.2MA5	0.05...5.00	0.01		3.2		
OZ1.2MA10	0.05...10.00	0.01		1.6		
OZ1.2MA20	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		
OZ1.2MA0.5-M12	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R _L 50Ω...R _L 900Ω	5-pole M12 plug-on flange Function of wires: PIN1: n. c. PIN2: +U PIN3: -U PIN4: n. c. PIN5: n. c.
OZ1.2MA2-M12	0.005...2.000	0.001		8.0		
OZ1.2MA5-M12	0.05...5.00	0.01		3.2		
OZ1.2MA10-M12	0.05...10.00	0.01		1.6		
OZ1.2MA20-M12	0.05...20.00	0.01		0.8		

(Subject to technical changes!)

Spare Parts

Type	Membrane cap	Electrolyte	Emery	O-ring
For all OZ1.2	M20.2 Art. no. 11011.1	EOZ1/W, 100 ml Art. no. 11101	S1 Art. no. 11908	14 x 1.8 silicone Art. no. 11805

(Subject to technical changes!)