

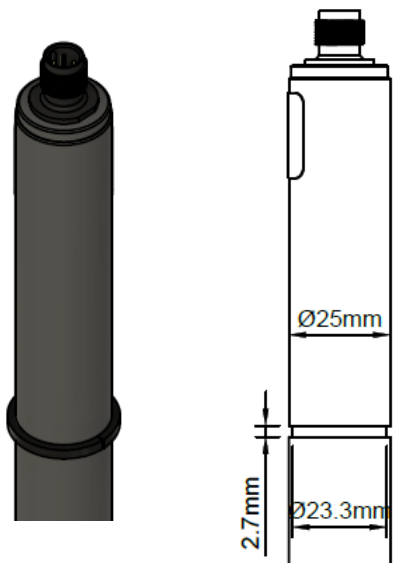
	<h1>TARAbase OZ1.2</h1>	
indicator	ozone	
Application	Swimming pool water, drinking water, service water, process water The water must not contain any surfactants (tensides)!	
Measuring system	Membrane covered, amperometric 2-electrode system	
Electronic	<p>Analog version:</p> <ul style="list-style-type: 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	<p>Operation without retaining ring:</p> <ul style="list-style-type: none"> – 0.5 bar – no pressure impulses and/or vibrations 	
	<p>Operation with retaining ring in TARAflow FLC:</p> <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 (15 – 30 cm/s) in TARAflow FLC, small flow rate dependence is given	



TARAbase OZ1.2


pH-range	pH 2 – pH 11	
Run-in time	First start-up approx. 1 h	
Response time	T ₉₀ : approx. 15 sec.	
Zero point adjustment	Not necessary	
calibration	At the device, by analytical determination	
interferences	Cl ₂ : factor 0.03 ClO ₂ : factor 0.7	
Absence of the disinfectant	Max. 24 h	
Connection	mV version: 5-pole M12, plug-on flange Modbus version: 5-pole M12, plug-on flange 4-20 mA version: 2-pole terminal or 5-pole M12, plug-on flange	
max. length of sensor cable (depending on internal signal processing)	analog	< 30 m
	digital	> 30 m are permissible Maximum cable length depends on application
Protection type	5-pole M12 plug-on flange: IP68 2-pole terminal with mA-hood: IP65	
material	Semipermeable membrane, PVC-U, ABS	
Size	diameter: approx. 25 mm Length: mV version approx. 190 mm (analog signal processing) approx.. 205 mm (digital signal processing) Modbus 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)	

	<h1>TARAbase OZ1.2</h1>	
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)
maintenance	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	
	EMC tested RoHS compliant	

Option 1: Retaining ring	<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)


	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Galvanic isolation required in the measuring device/controller *	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	yes	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			

* for further information see brochure 'Technical information // galvanic isolation' (in the download area of our website www.reiss-gmbh.com)

(Subject to technical changes!)

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


analog-out / digital

	Measuring range	Resolution	Output Output resistance	Nominal slope	Power supply	Galvanic isolation required in the measuring device/controller *	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	no	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. 7-30 mA		
OZ1.2N-Ap-M12	0.05...20.00	0.01	1 kΩ	+100			

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(Subject to technical changes!)

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


	Measuring range in ppm	Resolution in ppm	Output Output resistance	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
OZ1.2H-M0c	0.005...2.000	0.001	Modbus RTU	9-30 VDC	no	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. 7-30 mA		

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(Subject to technical changes!)

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


4.1 Electrical connection: 2 pole terminal clamp

	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Galvanic isolation required in the measuring device/controller *	Connection
	in ppm	in ppm		in mA/ppm			
OZ1.2MA0.5	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R _L 50Ω...R _L 900Ω	yes	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			

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(Subject to technical changes!)

4.2 Electrical connection: 5 pole M12 plug-on flange

	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope in mA/ppm	Voltage supply	Galvanic isolation required in the measuring device/controller *	Connection
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	yes	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			

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(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!)