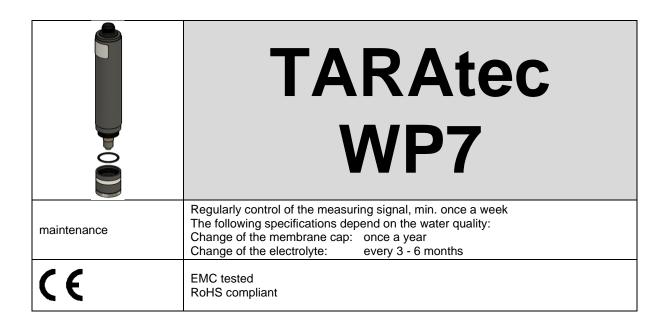


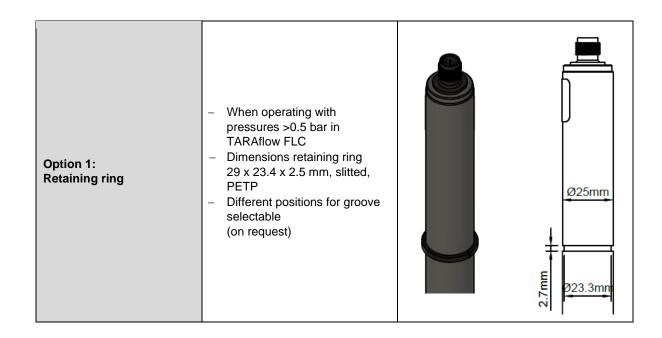
			RAtec /P7			
indicator	Hydrogen peroxid	е				
Application	(e. g. bottle washi	treatment, also sea ng machine, CIP-p stem is mechanica des) are partially to	lants) al resistant.			
Measuring system	Membrane covere	d, amperometric 2	-electrode system			
Electronic	Analog version: Digital version: mA-version:	 analog internal output signal: a electronic is co digital internal o output signal: 	inalog (analog-out/analog) mpletely galvanically isolated data processing analog (analog-out/digital) or digital (digital-out/digital)			
	ma-version.	 current output analog not galvanically isolated electronics output signal: analog (analog-out/analog) 				
Information about the measuring range	of the nominal slop Note: With a	slope > 100% the	y production-related between 65% and 150% measuring range is reduced accordingly. of the specified measuring range)			
Working temperature	Measuring water t	-	0 +45 °C (no ice crystals in the measuring water)			
	Ambient temperat	ure:	0 +55 °C			
Temperature compensation	Automatically, by an integrated temperature sensor Max. change in temperature: 5 °C per hour, sudden temperature changes must be avoided					
Max. allowed working pressure	Operation without retaining ring: - 0.5 bar - no pressure impulses and/or vibrations Operation with retaining ring in TARAflow FLC: - 1.0 bar, - no pressure impulses and/or vibrations (see option 1)					
Flow rate (Incoming flow velocity)	<u> </u>	(15 – 30 cm/s) in T	ARAflow FLC, small flow rate dependence is			



	TARAtec WP7
pH-range	pH 2 – pH 11
Run-in time	First start-up approx. 5 h
Response time	T ₉₀ : approx. 5 10 min.
Zero point adjustment	Not necessary
calibration	At the device, by analytical determination
interferences	Cl ₂ : must not be present PAA: must not be present O ₃ : must not be present Sulfides: contaminate the measuring system Phenol: aqueous solution >3 % phenol, destroys the membrane system
Absence of the disinfectant	Max. 24 h
Connection	mV version: Modbus version: 4-20 mA version: 5-pole M12, plug-on flange 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	Elastomer membrane, PVC-U, stainless steel 1.4571
Size	diameter: Length: mV version approx. 25 mm approx. 190 mm (analog signal processing) approx 205 mm (digital signal processing) 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









Technical Data

1. WP7 (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			
WP7H-M12	0.5200.0	0.1	02000 mV 1 kΩ	-10	±5 - ±15 VDC 10 mA	- yes	5-pole M12 plug-on flange Function of wires: PIN1: measuring signal
WP7N-M12	52000	1		1 kΩ -1			PIN2: +U PIN3: -U PIN4: signal GND PIN5: n. c.
WP7Up-M12	52000	1	0+2000 mV 1 kΩ	+1	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.

^{*} 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. WP7 (analog output, digital internal signal processing) analog-out / digital

	Measuring range	Resolution in ppm	Output Output resistance	Nominal slope in mV/ppm	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
WP7H-An-M12	0.5 200.0	0.1	analog 02 V (max2.5 V)	-10			5-pole M12 plug-on flange
WP7N-An-M12	5 2000	1	1 kΩ	-1	9-30 VDC	200	Function of wires: PIN1: measuring signal
WP7H-Ap-M12	0.5 200.0	0.1	analog 0+2 V (max. +2.5 V)	+10	approx. 7-30 mA	no	PIN2: +U PIN3: power GND PIN4: signal GND
WP7N-Ap-M12	5 2000	1	1 kΩ	+1			PIN5: n. c.

^{*} for further information see brochure 'Technical information // galvanic isolation' (in the download area of our website www.reiss-gmbh.com)
(Subject to technical changes!)



3. WP7 (digital output, digital internal signal processing)

	Measuring range	Resolution in ppm	Output Output resistance	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
WP7H-M0c	0.5 200.0	0.1	Modbus RTU	9-30 VDC		5-pole M12 plug-on flange Function of wires: PIN1: reserved
WP7N-M0c	5 2000	1	There are no terminating resistors in the sensor.	approx. 7-30 mA	no	PIN2: +U PIN3: power GND PIN4: RS485B PIN5: RS485A

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(Subject to technical changes!)



4. WP7 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
WP7MA-CC	0.5200.0 ppm	0.1 ppm		0.08 mA/ppm			2-pole terminal (2 x 1 mm²)
WP7MA-D	5.0500.0 ppm	0.1 ppm	420 mA	0.032 mA/ppm	1230 VDC		
WP7MA-MM	52000 ppm	1 ppm	uncalibrated	0.008 mA/ppm	R _L 50ΩR _L 900Ω	yes	Recommended: Round cable
WP7MA-XM	0.0051% (10000 ppm)	0.001 % (10 ppm)		16 mA/% (0.0016 mA/ppm)			Ø 4 mm 2 x 0.34 mm ²

^{*} for further information see brochure 'Technical information // galvanic isolation' (in the download area of our website www.reiss-gmbh.com)
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4.2 Electrical connection: 5 pole M12 plug-on flange

	Measuring range	Resolution	Output Output resistance	Nominal slope	Voltage supply	Galvanic isolation required in the measuring device/controller *	Connection
WP7MA-CC-M12	0.5200.0 ppm	0.1 ppm		0.08 mA/ppm			5-pole M12 plug-on flange
WP7MA-D-M12	5.0500.0 ppm	0.1 ppm	420 mA	0.032 mA/ppm	1230 VDC	yes	Function of wires: PIN1: n. c. PIN2: +U PIN3: -U PIN4: n c. PIN5: n. c.
WP7MA-MM-M12	52000 ppm	1 ppm	uncalibrated	0.008 mA/ppm	R _L 50ΩR _L 900Ω		
WP7MA-XM-M12	0.0051% (10000 ppm)	0.001 % (10 ppm)		16 mA/% (0.0016 mA/ppm)			

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(Subject to technical changes!)



Spare Parts

Туре	Membrane cap	Electrolyte	Emery	O-ring
WP7H				
WP7HUn				
WP7N		EWP7/W, 100 ml Art. no. 11201	S2 Art. no. 11906	14 x 1.8 NBR Art. no. 11806
WP7Un	M7.1N			
WP7Up	Art. No. 11014.1			
WP7MA-CC				
WP7MA-D				
WP7MA-MM				
WP7MA-XM	M7.1D Art. no. 11015.1			

(Subject to technical changes!)

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