

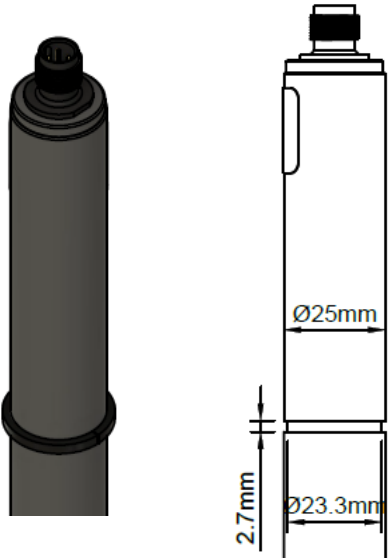




TARAtec WP10


Run-in time	First start-up approx. 5 h		
Response time	T ₉₀ : approx. 8 min.		
Accuracy after calibration at repeatability conditions (25°C, pH 7.2 in drinking water) of the upper full scale	– Measuring range 200 ppm:	at 40 ppm at 160 ppm	<2% <2%
	– Measuring range 2000 ppm:	at 400 ppm at 1600 ppm	<0,5% <2%
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:	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	Elastomer membrane, PVC-U, stainless steel 1.4571		
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)		
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)	

	<h1>TARAtec WP10</h1>
<p>maintenance</p>	<p>Regularly control of the measuring signal, min. once a week The following specifications highly depend on the water quality: Change of the membrane cap: once a year 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. WP10 (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
WP10H-M12	0.5...200 ppm	0.1 ppm	0...-2000 mV 1 kΩ	-10 mV/ppm	±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.
WP10N-M12	5...2000 ppm	1 ppm		-1 mV/ppm			
WP10L-M12	0.005...2 % (20000 ppm)	0.001 % (10 ppm)		-1000mV/% (-0.1 mV/ppm)			
WP10-20%-M12	0.05... 20% (200000 ppm)	0.01 % (100 ppm)		-100 mV/% (-0.01 mV/ppm)			

* 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. WP10 (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
WP10H-An-M12	0.5... 200.0 ppm	0.1 ppm	analog 0...-2 V (max. -2.5 V) 1 kΩ	-10 mV/ppm	9-30 VDC approx. 7-30 mA	no	5-pole M12 plug-on flange Function of wires: PIN1: measuring signal PIN2: +U PIN3: power GND PIN4: signal GND PIN5: n. c.
WP10N-An-M12	.50... 2000 ppm	1 ppm		-1 mV/ppm			
WP10L-An-M12	0.005... 2 % (20000 ppm)	0.001 % (10 ppm)		-1000 mV/% (-0.1 mV/ppm)			
WP10-20%-An-M12	0.05... 20 % (200000 ppm)	0.01 % (100 ppm)		-100 mV/% (-0.01 mV/ppm)			
WP10H-Ap-M12	0.5... 200.0 ppm	0.1 ppm	analog 0...+2 V (max. +2.5 V) 1 kΩ	+10 mV/ppm			
WP10N-Ap-M12	5... 2000 ppm	1 ppm		+1 mV/ppm			
WP10L-Ap-M12	0.005... 2 % (20000 ppm)	0.001 % (10 ppm)		+1000 mV/% (+0.1 mV/ppm)			
WP10-20%-Ap-M12	0.05... 20 % (200000 ppm)	0.01 % (100 ppm)		+100 mV/% (+0.01 mV/ppm)			

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(Subject to technical changes!)

3. WP10 (digital output, digital signal processing)


	Measuring range	Resolution	Output Output resistance	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
WP10H-M0c	0.5... 200.0 ppm	0.1 ppm	Modbus RTU There are no terminating resistors in the sensor.	9-30 VDC approx. 7-30 mA	no	5-pole M12 plug-on flange Function of wires: PIN1: reserved PIN2: +U PIN3: power GND PIN4: RS485B PIN5: RS485A
WP10N-M0c	5... 2000 ppm	1 ppm				
WP10L-M0c	0.005... 2 % (20000 ppm)	0.001 % (10 ppm)				
WP10-20%-M0c	0.05... 20 % (200000 ppm)	0.01 % (100 ppm)				

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(Subject to technical changes!)

4. WP10 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
WP10MA-200	0.5... 200.0 ppm	0.1 ppm	4...20 mA uncalibrated	0.08 mA/ppm	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
WP10MA-2000	5... 2000 ppm	1 ppm		0.008 mA/ppm			
WP10MA-2%	0.005... 2 % (20000 ppm)	0.001 % (10 ppm)		8 mA/% (0.0008 mA/ppm)			
WP10MA-5%	0.05... 5 % (50000 ppm)	0.01 % (100 ppm)		3.2 mA/% (0.00032 mA/ppm)			
WP10MA-10%	0.05... 10 % (100000 ppm)	0.01 % (100 ppm)		1.6 mA/% (0.00016 mA/ppm)			
WP10MA-20%	0.05... 20 % (200000 ppm)	0.01 % (100 ppm)		0.8 mA/% (0.00008 mA/ppm)			

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(Subject to technical changes!)

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
WP10MA-200-M12	0.5... 200.0 ppm	0.1 ppm	4...20 mA uncalibrated	0.08 mA/ppm	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.
WP10MA-2000-M12	5... 2000 ppm	1 ppm		0.008 mA/ppm			
WP10MA-2%-M12	0.005... 2 % (20000 ppm)	0.001 % (10 ppm)		8 mA/% (0.0008 mA/ppm)			
WP10MA-5%-M12	0.05... 5 % (50000 ppm)	0.01 % (100 ppm)		3.2 mA/% (0.00032 mA/ppm)			
WP10MA-10%-M12	0.05... 10 % (100000 ppm)	0.01 % (100 ppm)		1.6 mA/% (0.00016 mA/ppm)			
WP10MA-20%-M12	0.05... 20 % (200000 ppm)	0.01 % (100 ppm)		0.8 mA/% (0.00008 mA/ppm)			

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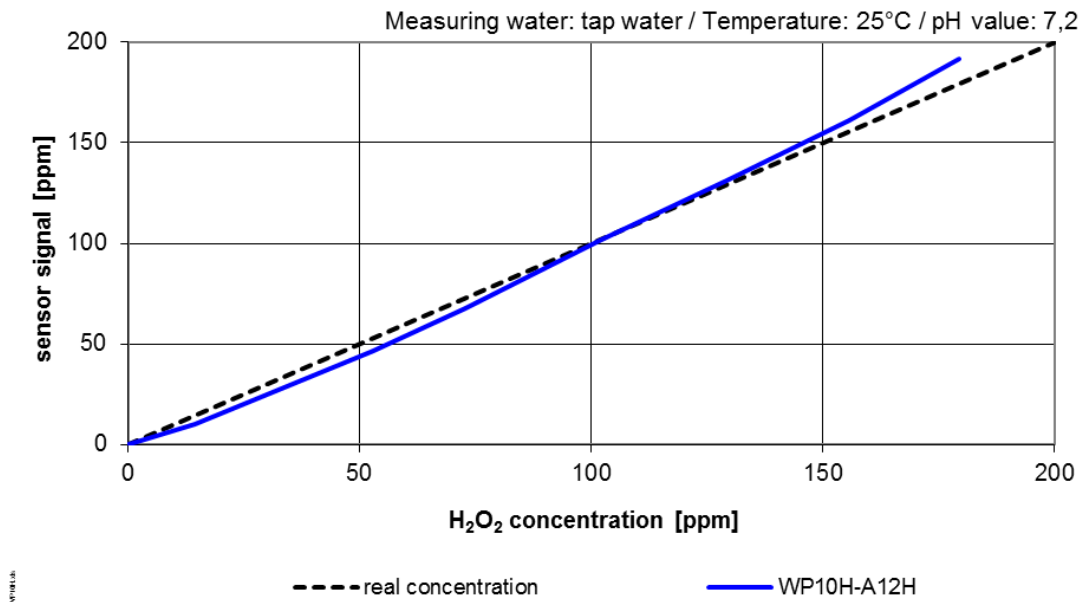
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Spare Parts

Type	Membrane cap	Electrolyte	Emery	O-ring
All WP10H	M10.1H with G-holder Art. no. 11045.1	EWP7/W, 100 ml Art. no. 11201	S2 Art. no. 11906	20 x 1.5 silicone Art. no. 11803
All WP10N				
All WP10L	M10.1D with G-holder Art. no. 11041.1			
All WP10-20%				
All WP10MA-200	M10.1H with G-holder Art. no. 11045.1			
All WP10MA-2000				
All WP10MA-2%	M10.1D with G-holder Art. no. 11041.1			
All WP10MA-5%				
All WP10MA-10%				
All WP10MA-20%				

(Subject to technical changes!)

Linearity of WP10H-A12n
Measurement range 200 ppm



Linearity of WP10N-A12n
Measurement range 2000 ppm

