

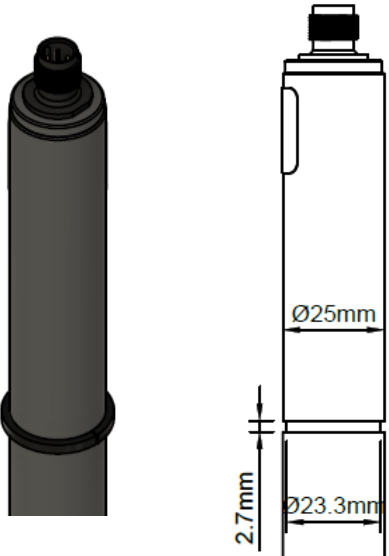

	<h1>TARAttec CD10.1</h1>	
Flow rate (Incoming flow velocity)	approx. 15-30 l/h (15 – 30 cm/s) in TARAflow FLC, small flow rate dependence is given	
pH-range	pH 1 – pH 12 or the beginning of decomposition of chlorine dioxide at/over pH 12	
Run-in time	First start-up approx. 1 h	
Response time	T ₉₀ : approx. 1 min.	
Accuracy after calibration at repeatability conditions (25°C, pH 7.2 in drinking water) of the upper full scale	<ul style="list-style-type: none"> – Measuring range 2 ppm: at 0.4 ppm <1% at 1.6 ppm <1% – Measuring range 20 ppm: at 1.5 ppm <0.1% 	
Zero point adjustment	Not necessary	
calibration	At the device, by analytical determination	
interferences	Cl ₂ : factor 0.1 O ₃ : factor 25	
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	

	<h1>TARAttec CD10.1</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 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 TARAttec 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. CD10.1 (Analog output, analog internal signal processing)

	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope in mV/ppm	Voltage supply	Galvanic isolation required in the measuring device/controller *	Connection
CD10.1H-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
CD10.1N-M12	0.05...20.00	0.01		-100			Function of wires: PIN1: measuring signal PIN2: +U PIN3: -U PIN4: signal GND PIN5: n. c.
CD10.1L-M12	0.5...200.0	0.1		-10			
CD10.1HUp-M12	0.005...2.000	0.001	0...+2000 mV 1 kΩ	+1000	10 - 30 VDC 10 mA		5-pole M12 plug-on flange
CD10.1Up-M12	0.05...20.00	0.01		+100	Function of wires: PIN1: measuring signal PIN2: +U PIN3: power GND PIN4: signal GND PIN5: n. c.		
CD10.1LUp-M12	0.5...200.0	0.1		+10			

* 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. CD10.1 (analog output, digital signal processing)
 analog-out / digital

	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope in mV/ppm	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
CD10.1H-An-M12	0.005...2.000	0.001	analog 0...-2 V (max. -2.5 V) 1 kΩ	-1000	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.
CD10.1N-An-M12	0.05...20.00	0.01		-100			
CD10.1L-An-M12	0.5...200.0	0.1		-10			
CD10.1H-Ap-M12	0.005...2.000	0.001	analog 0...+2 V (max. +2.5 V) 1 kΩ	+1000			
CD10.1N-Ap-M12	0.05...20.00	0.01		+100			
CD10.1L-Ap-M12	0.5...200.0	0.1		+10			

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(Subject to technical changes!)

3. CD10.1 (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
CD10.1H-M0c	0.005...2.000	0.001	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
CD10.1N-M0c	0.05...20.00	0.01				
CD10.L-M0c	0.5...200.0	0.1				

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(Subject to technical changes!)

4. CD10.1 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			
CD10.1MA0.5	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 ∅ 4 mm 2 x 0.34 mm ²
CD10.1MA2	0.005...2.000	0.001		8.0			
CD10.1MA5	0.05...5.00	0.01		3.2			
CD10.1MA10	0.05...10.00	0.01		1.6			
CD10.1MA20	0.05...20.00	0.01		0.8			
CD10.1MA-200	0.5...200.0	0.1		0.08			

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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
CD10.1MA0.5-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.
CD10.1MA2-M12	0.005...2.000	0.001		8.0			
CD10.1MA5-M12	0.05...5.00	0.01		3.2			
CD10.1MA10-M12	0.05...10.00	0.01		1.6			
CD10.1MA20-M12	0.05...20.00	0.01		0.8			
CD10.1MA-200-M12	0.5...200.0	0.1		0.08			

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(Subject to technical changes!)

Spare Parts

Type	Membrane cap	Electrolyte	Emery	O-ring
All CD10.1	M10.3N Art. no. 11057	ECD4 • ECD7/W, 100 ml Art. no. 11030	S2 Art. no. 11906	20 x 1.5 silicone Art. no. 11803

(Subject to technical changes!)

Linearity of TARAtec CD10.1H
Measurement range 2 ppm

