

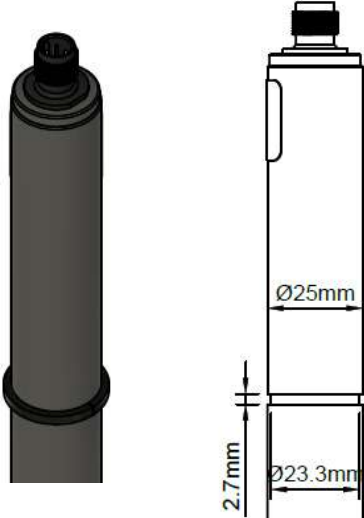

	<h1>TARAline CC1</h1>	
<p>Max. allowed working pressure</p>	<p>Operation without retaining ring:</p> <ul style="list-style-type: none"> <li>- 0.5 bar</li> <li>- no pressure impulses and/or vibrations</li> </ul>	
	<p>Operation with retaining ring in TARAflow FLC:</p> <ul style="list-style-type: none"> <li>- 3 bar,</li> <li>- no pressure impulses and/or vibrations (see option 1)</li> </ul>	
<p>Flow rate (Incoming flow velocity)</p>	<p>approx. 15-30L/h (15 – 30 cm/s) in TARAflow FLC, small flow rate dependence is given</p>	
<p>pH-range</p>	<p>pH 4 – pH 12, highly reduced dependence on pH-value</p>	
<p>Run-in time</p>	<p>First start-up approx. 2 h</p>	
<p>Response time</p>	<p>T<sub>90</sub>: approx. 2 min.</p>	
<p>Zero point adjustment</p>	<p>Not necessary</p>	
<p>calibration</p>	<p>At the device, by analytical determination, DPD-1-Method</p>	
<p>Cross sensitivities/ interferences</p>	<p>ClO<sub>2</sub>: factor 1 O<sub>3</sub>: is measured</p> <p>Corrosion inhibitors can lead to measuring errors. Stabilisers for water hardness can lead to measuring errors.</p>	
<p>Absence of the disinfectant</p>	<p>Max. 24 h</p>	
<p>Connection</p>	<p>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</p>	
<p>max. length of sensor cable (depending on internal signal processing)</p>	<p>analog</p>	<p>&lt; 30 m</p>
	<p>digital</p>	<p>&gt; 30 m are permissible Maximum cable length depends on application</p>
<p>Protection type</p>	<p>5-pole M12 plug-on flange: IP68 2-pole terminal with mA-hood: IP65</p>	
<p>material</p>	<p>Microporous hydrophilic Membrane, PVC-U, PEEK, stainless steel 1.4571</p>	
<p>Transport</p>	<p>+5 ... +50 °C (Sensor, electrolyte, membrane cap)</p>	

	<h1>TARAline CC1</h1>	
<p>Size</p>	<p>diameter: approx. 25 mm          Length: mV version approx. 190 mm (analog signal processing)          Modbus version approx. 205 mm (digital signal processing)          4-20 mA version approx. 205 mm          approx. 220 mm (2-pole-terminal)          approx. 190 mm (5-pole-M12)</p>	
<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 the 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          Change of the electrolyte: every 3 - 6 months</p>	
	<p>EMC tested RoHS compliant</p>	

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


## 1. CC1 (analog output, analog internal signal processing)

	<b>Measuring range</b>  in ppm	<b>Resolution</b>  in ppm	<b>Output Output resistance</b>	<b>Nominal slope</b> (at pH 7.2)  in mV/ppm	<b>Voltage supply</b>	<b>Galvanic isolation required in the measuring device/controller *</b>	<b>Connection</b>
CC1N-M12	0.05...20.00	0.01	0...-2000 mV 1 kΩ	-100	±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.
CC1H-M12	0.005...2.000	0.001		-1000			
CC1Up-M12	0.05...20.00	0.01	0...+2000 mV 1 kΩ	+100	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](http://www.reiss-gmbh.com))

(Subject to technical changes!)


**2. CC1 (analog output, digital internal signal processing)**  
 analog-out / digital

	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope (at pH 7.2) in mV/ppm	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
CC1N-An-M12	0.05... 20.00	0.01	analog 0...-2 V (max. -2.5 V)	-100	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.
CC1H-An-M12	0.005... 2.000	0.001	1 k $\Omega$	-1000			
CC1N-Ap-M12	0.05... 20.00	0.01	analog 0...+2 V (max. +2.5 V)	+100			
CC1H-Ap-M12	0.005... 2.000	0.001	1 k $\Omega$	+1000			

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3. CC1 (digital output, digital internal signal processing)


	Measuring range in ppm	Resolution in ppm	Output Output resistance	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
CC1N-M0c	0.05... 20.00	0.01	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
CC1H-M0c	0.005... 2.000	0.001	There are no terminating resistors in the sensor.	approx. 7-30 mA		

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#### 4. CC1 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 (at pH 7.2)	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
	in ppm	in ppm		in mA/ppm			
CC1MA2	0.005...2.000	0.001	4...20 mA uncalibrated	8.0	12...30 VDC R <sub>i</sub> 50Ω...R <sub>i</sub> 900Ω	yes	2-pole terminal (2 x 1 mm <sup>2</sup> )  Recommended: Round cable ∅ 4 mm 2 x 0.34 mm <sup>2</sup>
CC1MA5	0.05...5.00	0.01		3.2			
CC1MA10	0.05...10.00	0.01		1.6			
CC1MA20	0.05...20.00	0.01		0.8			

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4.2 Electrical connection: 5 pole M12 plug-on flange

	Measuring range in ppm	Resolution in ppm	Output Output resistance	Nominal slope (at pH 7.2) in mA/ppm	Power supply	Galvanic isolation required in the measuring device/controller *	Connection
CC1MA2-M12	0.005...2.000	0.001	4...20 mA uncalibrated	8.0	12...30 VDC R <sub>L</sub> 50Ω...R <sub>L</sub> 900Ω	yes	5-pole M12 plug-on flange  Function of wires: PIN1: n. c. PIN2: +U PIN3: -U PIN4: n c. PIN5: n. c.
CC1MA5-M12	0.05...5.00	0.01		3.2			
CC1MA10-M12	0.05...10.00	0.01		1.6			
CC1MA20-M12	0.05...20.00	0.01		0.8			

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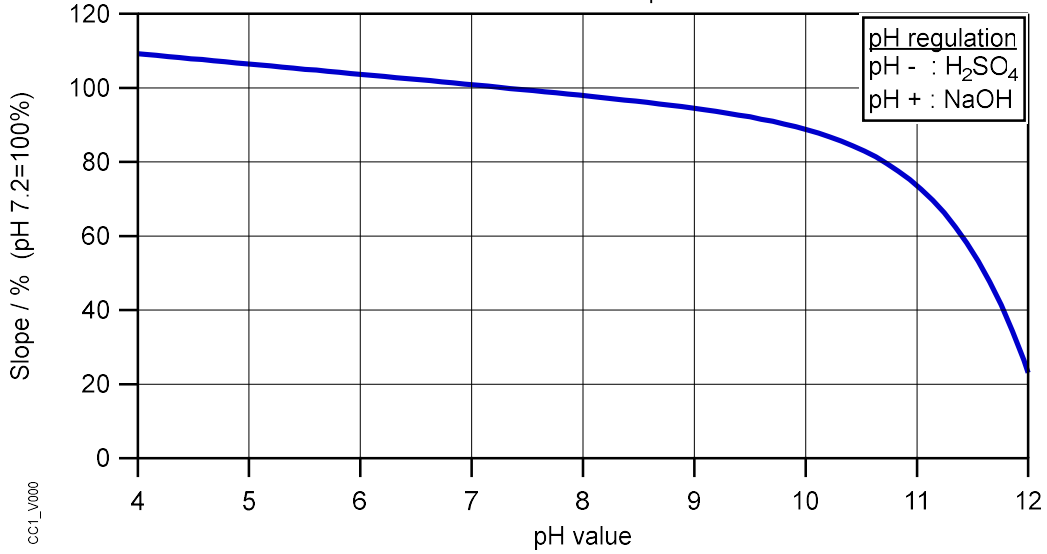
**Spare Parts**

Type	Membrane cap	Electrolyte	Emery	O-ring
For all CC1	M48.2 Art. no. 11047	ECC1.1/GEL, 100 ml Art. no. 11005.1	S1 Art. no. 11908	14 x 1.8 NBR Art. no. 11806

(Subject to technical changes!)

**Slope of TARALine CC1 versus pH**

Temperature: 25°C / Flow rate: 30 L/h



**Slope of TARALine CC1 versus Flow**

Temperature: 25°C / pH value: 7.2

