

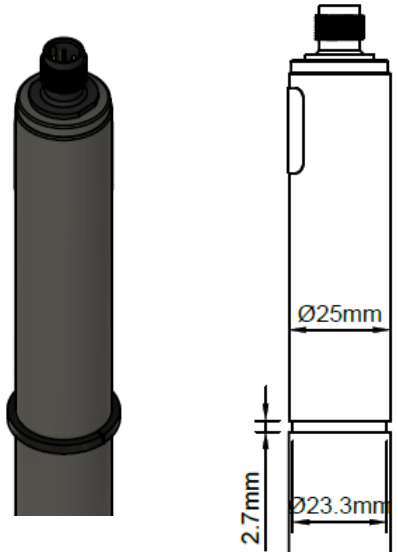

	<h1>TARAbase CD4.2</h1>	
Flow rate (Incoming flow velocity)	approx. 15-30L/h (15 – 30 cm/s) in TARAflow FLC, small flow rate dependence is given	
pH-range	pH 1 – pH 12 or the beginning of decomposition of chlorine dioxide at/over pH 12	
Run-in time	First start-up approx. 1 h	
Response time	T <sub>90</sub> : approx. 15 sec.	
Zero point adjustment	Not necessary	
calibration	At the device, by analytical determination	
interferences	Cl <sub>2</sub> : factor 0.35 O <sub>3</sub>	
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 CD4.2</h1>	
<p>storage</p>	<p>Sensor:</p>	<p>dry and without electrolyte no limit at +5 ... +40 °C</p>
	<p>Electrolyte:</p>	<p>in original bottle protected from sunlight at +5 ... +35 °C min. 1 year or until specified EXP-Date</p>
	<p>Membrane cap:</p>	<p>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 (depending on the water quality) 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. CD4.2 (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
CD4.2N-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.
CD4.2H-M12	0.005...2.000	0.001		-1000			

\* 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. CD4.2 (analog output, digital internal 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			
CD4.2H-An-M12	0.005...2.000	0.001	analog 0...-2 V (max. -2.5 V)	-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.
CD4.2N-An-M12	0.05...20.00	0.01	1 kΩ	-100			
CD4.2H-Ap-M12	0.005...2.000	0.001	analog 0...+2 V (max. +2.5 V)	+1000			
CD4.2N-Ap-M12	0.05...20.00	0.01	1 kΩ	+100			

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(Subject to technical changes!)

3. CD4.2 (digital output, digital internal signal processing)


	<b>Measuring range</b>  in ppm	<b>Resolution</b>  in ppm	<b>Output Output resistance</b>	<b>Power supply</b>	<b>Galvanic isolation required in the measuring device/controller *</b>	<b>Connection</b>
CD4.2H-M0c	0.005... 2.000	0.001	Modbus RTU  There are no terminating resistors in the sensor.	9-30 VDC	no	5-pole M12 plug-on flange  Function of wires: PIN1: reserved PIN2: +U PIN3: power GND PIN4: RS485B PIN5: RS485A
CD4.2N-M0c	0.05... 20.00	0.01		approx. 7-30 mA		

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(Subject to technical changes!)

4. CD4.2 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			
CD4.2MA0.5	0.005...0.500	0.001	4...20 mA uncalibrated	32.0	12...30 VDC R <sub>L</sub> 50Ω...R <sub>L</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>
CD4.2MA2	0.005...2.000	0.001		8.0			
CD4.2MA5	0.05...5.00	0.01		3.2			
CD4.2MA10	0.05...10.00	0.01		1.6			
CD4.2MA20	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 in mA/ppm	Voltage supply	Galvanic isolation required in the measuring device/controller *	Connection
CD4.2MA0.5-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.
CD4.2MA2-M12	0.005...2.000	0.001		8.0			
CD4.2MA5-M12	0.05...5.00	0.01		3.2			
CD4.2MA10-M12	0.05...10.00	0.01		1.6			
CD4.2MA20-M12	0.05...20.00	0.01		0.8			

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## Spare Parts

Type	Membrane cap	Electrolyte	emery	O-ring
For all CD4.2	M20.2 Art. no. 11011.1	ECD4 • ECD7/W, 100 ml Art. no. 11030	S1 Art. no. 11908	14 x 1.8 NBR Art. no. 11806

(Subject to technical changes!)