ALLIGUARD
WATER TREATMENT SOLUTIONS
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DOSATRONIC®
MANAGEMENT IN WATER

1.1.1. DOSA*Sens* Chlorine sensor **CC1**

Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of free chlorine on the basis of iso-cyanuric acid, also in seawater, with reduced pH dependence.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), $Ca(ClO)_2$ (calcium hypochlorite), Cl_2 (chlorine gas), electrolytically generated chlorine, and organic combined chlorine based on iso-cyanuric acid (tested up to an isocyanuric acid concentration of 500 mg/l)
- In the presence of isocyanuric acid, the sensor measures the total bound organic chlorine (within the isocyanuric acid) and the free chlorine already released from it
- Calibration: at the controller, via analytical chlorine determination by DPD 1 method, observe the isocyanuric acid concentration when determining the free chlorine
- Interferences:
  - ClO_2 is 100 % detected
  - O_3 is detected
- pH range: 4 – 12, greatly reduced pH dependence
- Pressure range:
  - Operation without circlip: 0 ... 0.5 bar (no pressure surges and/or vibrations)
  - Operation with circlip: 0 ... 1.0 bar (no pressure surges and/or vibrations)
- Temperature range: 0 – 45 °C, (no ice cristals in test water allowed)
- Integrated automatic temperature compensation
- Response time: T_{90} approx. 2 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 30 l/h, low flow dependence
- Shaft length: standard 190 mm, and up to 220 mm in length (mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous hydrophilic membrane

Areas of application:

- Swimming pool, drinking, sea water, surfactants are tolerated in part.

Scope of supply:

- **DOSA*Sens* CC1** sensor, membrane cap, electrolyte for use in fresh water use, instruction manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CC1**H-M12**	0.005 – 2.000	0.001	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3626090
CC1**N-M12**	0.05 – 20.00	0.01			3626091
CC1**H-An-M12**	0.005 – 2.000	0.001	0 to -2000 mV 1 kΩ	9 – 30 VDC 20 – 56 mA	3626100
CC1**N-An-M12**	0.05 – 20.00	0.01			3626101
CC1**H-M0c**	0.005 – 2.000	0.001	Modbus RTU		3426610
CC1**N-M0c**	0.05 – 20.00	0.01			3426611
CC1**MA2**	0.01 – 2.00	0.01	4 – 20 mA	12 – 30 VDC R_L = 50 Ω to 900 Ω	3326094
CC1**MA5**	0.01 – 5.00	0.01			3326096
CC1**MA10**	0.01 – 10.00	0.01			3326095
CC1**MA20**	0.01 – 20.00	0.01			3326107
CC1**MA2-M12**	0.01 – 2.00	0.01			3426615
CC1**MA5-M12**	0.01 – 5.00	0.01			3426616
CC1**MA10-M12**	0.01 – 10.00	0.01			3426617
CC1**MA20-M12**	0.01 – 20.00	0.01			3426618

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Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CC1**H-M12**	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
CC1**N-M12**	-100 mV/ppm		
CC1**H-An-M12**	-1000 mV/ppm		
CC1**N-An-M12**	-100 mV/ppm		
CC1**H-M0c**	-1000 mV/ppm		-
CC1**N-M0c**	-100 mV/ppm		
CC1**MA2**	8.0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CC1**MA5**	3.2 mA/ppm		
CC1**MA10**	1.6 mA/ppm		
CC1**MA20**	0.8 mA/ppm		
CC1**MA2-M12**	8.0 mA/ppm	5-pin M12 screwed plug	
CC1**MA5-M12**	3.2 mA/ppm		
CC1**MA10-M12**	1.6 mA/ppm		
CC1**MA20-M12**	0.8 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap **M48.2**	**CC1** all types	9026020
Electrolyte **ECC1.1**	**CC1** all types	9026075

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4–20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and **mA Tester**	all sensors with mV signal or mA signal	21131105
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH	90231000