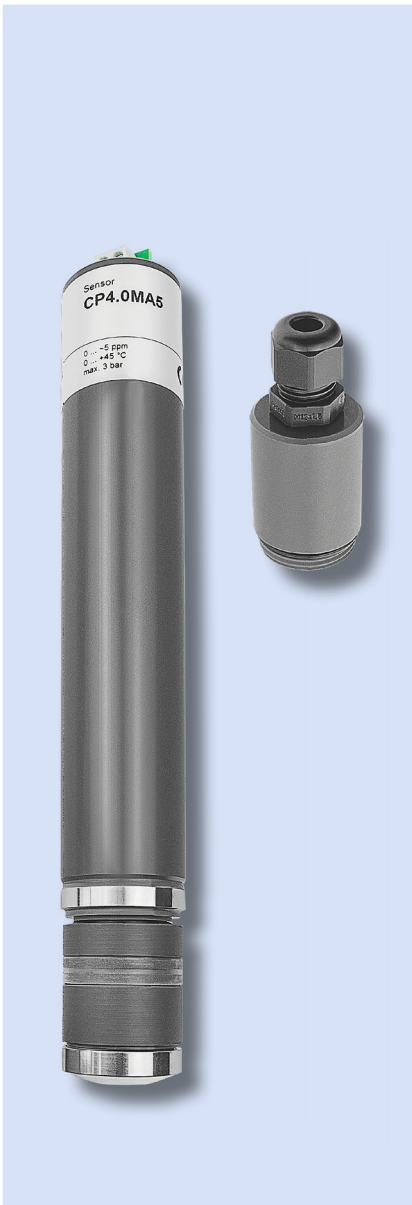


1.1.1.

DOSASens Chlorine sensor CP4.0



Chlorine sensor with membrane-covered, amperometric 3-electrode system. For the measurement of total chlorine with greatly reduced pH-dependence.

Product description:

- Measurand(s): NaClO (sodium hypochlorite), Ca(ClO)₂ (calcium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Calibration: at the controller, via analytical chlorine determination by DPD-4 method (DPD-1 + DPD-3)
- Interferences:
 - ClO₂ is registered with 100 %,
 - O₃ is measured with a slope of approx. 130% (factor 1.3 with regard to the chlorine slope)
- Resolution: depending on the sensor type 0.1 – 0.001 ppm
- pH range: 4 – 12 (linear decrease with approx. 5 % per increasing pH-unit)
- Pressure range:
 - Operation without circlip: 0–0.5 bar, no pressure surges and/or vibrations
 - Operation with circlip: 0–3.0 bar, no pressure surges and/or vibrations
- Temperature range: 0–45 °C (no ice crystals are allowed in the water)
- Sensor with automatic temperature compensation
- Response time: T₉₀ approx. 3 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 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: microporous hydrophilic membrane, PVC-U, Peek, stainless steel 1.4571

Areas of application:

- Swimming pool, drinking water, surfactants are partially tolerated.

Scope of supply:

- DOSASens CP4 sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
CP4.0H-M12	0,005 ... 2,00	0,001	0 ... -2000 mV/ 1 kΩ	±5 ... ±15 VDC 10 mA	3626110
CP4.0N-M12	0,05 ... 20,00	0,01			3626111
CP4.0H-An-M12	0,005 ... 2,00	0,001	Modbus RTU	9 ... 30 VDC ca. 20 ... 56 mA	3626120
CP4.0N-An-M12	0,05 ... 20,00	0,01			3626121
CP4.0H-M0c	0,005 ... 2,00	0,001	3226340		
CP4.0N-M0c	0,05 ... 20,00	0,01	3226341		

Ordering data:

Type:	Measuring range:	Resolution:	Output signal:	Power supply:	Item number:
	ppm	ppm			
CP4.0MA0,5	0,05 ... 0,50	0,01	4 ... 20 mA	12 ... 30 VDC R _L = 50 ... 900 Ω	3226310
CP4.0MA2	0,01 ... 2,00	0,01			3226311
CP4.0MA5	0,01 ... 5,00	0,01			3226312
CP4.0MA10	0,01 ... 10,00	0,01			3226313
CP4.0MA20	0,01 ... 20,00	0,01			3226314
CP4.0MA0,5-M12	0,05 ... 0,50	0,01			3226320
CP4.0MA2-M12	0,01 ... 2,00	0,01			3226321
CP4.0MA5-M12	0,01 ... 5,00	0,01			3226322
CP4.0MA10-M12	0,01 ... 10,00	0,01			3226323
CP4.0MA20-M12	0,01 ... 20,00	0,01			3226324

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
CP4.0H-M12	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
CP4.0N-M12	-100 mV/ppm		
CP4.0H-An-M12	-1000 mV/ppm		
CP4.0N-An-M12	-100 mV/ppm		
CP4.0H-M0c	Modbus RTU		
CP4.0N-M0c			
CP4.0MA0,5	32,0 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
CP4.0MA2	8,0 mA/ppm		
CP4.0MA5	3,2 mA/ppm		
CP4.0MA10	1,6 mA/ppm		
CP4.0MA20	0,8 mA/ppm		
CP4.0MA0,5-M12	32,0 mA/ppm	5-pin M12 screwed plug	
CP4.0MA2-M12	8,0 mA/ppm		
CP4.0MA5-M12	3,2 mA/ppm		
CP4.0MA10-M12	1,6 mA/ppm		
CP4.0MA20-M12	0,8 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M48.4E	CP4.0 all types	9026023
Electrolyte ECP1.4/GEL	CP4.0 all types	9026074

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