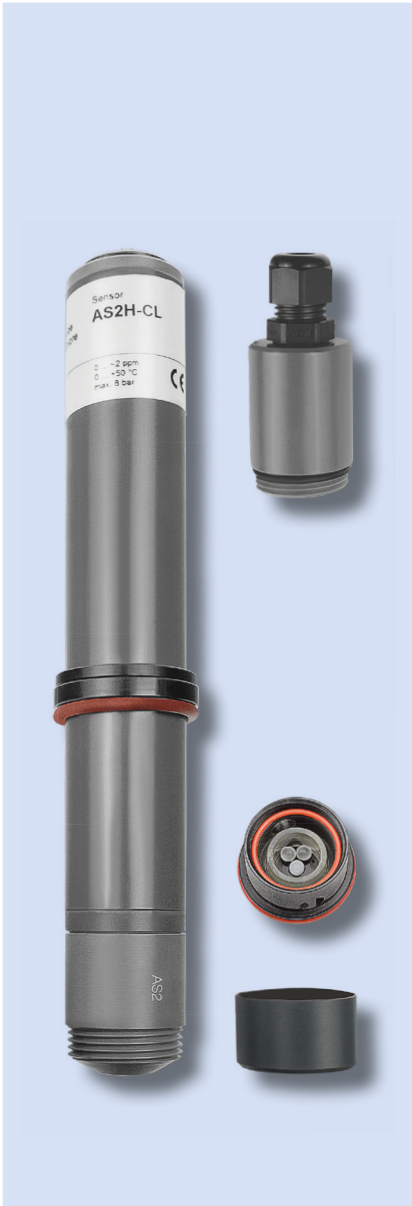


1.1.1.

**DOSASens Chlorine sensor AS2, AS3**

Sensor for the measurement of free, inorganic chlorine with open measuring cell. Optional with cleaning device. Amperometric, 3-electrode system with potentiostatic circuit.



**Product description:**

- Measurand(s): free chlorine made of chlorine bleaching or chlorine gas and electrolytically generated chlorine
- Calibration: at the controller, via analytical determination by DPD-1 method
- Interferences: ozone, chlorine dioxide, chlorite are also registered
- pH range: 5–9
- Pressure range:
  - Operation without circlip: 0 ... 0.5 bar
  - Operation with circlip: 0 ... 8.0 bar
- Temperature range: 0–50 °C (AS2), 0–70 °C (AS3)
- Integrated automatic temperature compensation
- Response time: T<sub>90</sub> approx. 30 s
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15 l/h (with RV1 increased to approx. 45–90 l/h)
- With the cleaning device (RV1) there is a restriction of the measuring range to 0,7 or 7 ppm
- Shaft length: standard 190 mm, and up to 220 mm in length (mA-Version)
- Connection: Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U (AS2), PEEK (AS3)

**Areas of application:**

- Fresh water, especially drinking water, up to max. 70 °C.

**Scope of supply:**

- DOSASens AS2, AS3 sensor, electrolyte hull, electrolyte, operating manual

**Ordering data:**

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS2H-CL-M12	0.005–2.00	0.001	0 to -2000 mV 1 kΩ	±5 to ± 15 VDC 10 mA	3626400
AS2N-CL-M12	0.03–20.00	0.01			3626401
AS2H-CL-An-M12	0.005–2.00	0.001	Modbus RTU	9–30 VDC 20–56 mA	3626402
AS2N-CL-An-M12	0.03–20.00	0.01			3626403
AS2H-CL-M0c	0.005–2.00	0.001	3426770		
AS2N-CL-M0c	0.03–20.00	0.01	3426771		

## Ordering data:

Type: (up to 50°C)	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS2MA1-CL	0.03– 1.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326111
AS2MA2-CL	0.03– 2.00	0.01			3326113
AS2MA5-CL	0.03– 5.00	0.01			3326112
AS2MA10-CL	0.03–10.00	0.01			3326115
AS2MA20-CL	0.03–20.00	0.01			3326116
AS2MA1-CL-M12	0.03– 1.00	0.01			3426790
AS2MA2-CL-M12	0.03– 2.00	0.01			3426791
AS2MA5-CL-M12	0.03– 5.00	0.01			3426792
AS2MA10-CL-M12	0.03–10.00	0.01			3426793
AS2MA20-CL-M12	0.03–20.00	0.01			3426794
Type: (up to 70°C)	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
AS3H-CL-M12	0.005–2.00	0.001	0 to -2000 mV 1 k $\Omega$	±5 to ± 15 V DC 10 mA	3626410
AS3N-CL-M12	0.03–20.00	0.01		3626411	
AS3H-CL-An-M12	0.005–2.00	0.001	Modbus RTU	9 to ± 30 V DC 20–56 mA	3626412
AS3N-CL-An-M12	0.03–20.00	0.01			3626413
AS3H-CL-M0c	0.005–2.00	0.001	Modbus RTU	9 to ± 30 V DC 20–56 mA	3426720
AS3N-CL-M0c	0.03–20.00	0.01			3426721
AS3MA1-CL	0.03– 1.00	0.01	4–20 mA	12–30 VDC $R_L = 50–900 \Omega$	3326121
AS3MA2-CL	0.03– 2.00	0.01			3326123
AS3MA5-CL	0.03– 5.00	0.01			3326122
AS3MA10-CL	0.03–10.00	0.01			3326125
AS3MA20-CL	0.03–20.00	0.01			3326127
AS3MA1-CL-M12	0.03– 1.00	0.01			3426740
AS3MA2-CL-M12	0.03– 2.00	0.01			3426741
AS3MA5-CL-M12	0.03– 5.00	0.01			3426742
AS3MA10-CL-M12	0.03–10.00	0.01			3426743
AS3MA20-CL-M12	0.03–20.00	0.01			3426744

## Additional technical data:

Type: (up to 50°C)	Slope:	Connection:	Special characteristics:
AS2H-CL-M12	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
AS2N-CL-M12	-100 mV/ppm		
AS2H-CL-An-M12	-1000 mV/ppm		
AS2N-CL-An-M12	-100 mV/ppm		
AS2H-CL-M0c	Modbus RTU		
AS2N-CL-M0c			
AS2MA1-CL	16 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
AS2MA2-CL	8.0 mA/ppm		
AS2MA5-CL	3.2 mA/ppm		
AS2MA10-CL	1.6 mA/ppm		
AS2MA20-CL	0.8 mA/ppm		
AS2MA1-CL-M12	16 mA/ppm	5-pin M12 screwed plug	
AS2MA2-CL-M12	8.0 mA/ppm		
AS2MA5-CL-M12	3.2 mA/ppm		
AS2MA10-CL-M12	1.6 mA/ppm		
AS2MA20-CL-M12	0.8 mA/ppm		

**Additional technical data:**

Type:	Slope:	Connection:	Special characteristics:
(up to 70°C)			
<b>AS3H-CL-M12</b>	-1000 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply.
<b>AS3N-CL-M12</b>	-100 mV/ppm		
<b>AS3H-CL-An-M12</b>	-1000 mV/ppm		
<b>AS3N-CL-An-M12</b>	-100 mV/ppm		
<b>AS3H-CL-M0c</b>	Modbus RTU		
<b>AS3N-CL-M0c</b>			
<b>AS3MA1-CL</b>	16 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
<b>AS3MA2-CL</b>	8.0 mA/ppm		
<b>AS3MA5-CL</b>	3.2 mA/ppm		
<b>AS3MA10-CL</b>	1.6 mA/ppm		
<b>AS3MA20-CL</b>	0.8 mA/ppm		
<b>AS3MA1-CL-M12</b>	16 mA/ppm	5-pin M12 screwed plug	
<b>AS3MA2-CL-M12</b>	8.0 mA/ppm		
<b>AS3MA5-CL-M12</b>	3.2 mA/ppm		
<b>AS3MA10-CL-M12</b>	1.6 mA/ppm		
<b>AS3MA20-CL-M12</b>	0.8 mA/ppm		

**Spare parts:**

Spare parts:	for sensor type:	Item number:
Abrasive paper <b>S3</b>	<b>AS</b> all types	9026103
Electrolyte hull <b>PVC</b>	<b>AS2</b> all types	9026154
Electrolyte hull <b>PEEK</b>	<b>AS3</b> all types	9026220
Electrolyte <b>EAS1/Gel</b>	<b>AS</b> all types	9026066

**Accessories:**

Type:	for sensor type:	Item number:
Cleaning device <b>RV1</b>	<b>AS</b> (all types), *with <b>RV1</b> there is a restriction of the measuring range to 0,7 or 7 ppm	9026180
<b>Sensor simulator pH, Redox, Cl</b>	all sensors with mV signal	21131100
<b>Sensor simulator SIM11.1n</b>	0 mV, -100 mV, -1000mV	9026205
<b>Sensor simulator 4 – 20 mA, current sensor</b>	all sensors with mA signal	90249000
<b>mV Simulator and mA Tester</b>	all sensors with mV signal or mA signal	21131105
<b>Photometer</b> for calibration	chlorine, total chlorine, isocyanuric, pH	90231000

