

1.1.1.

DOSA*Sens* Chlorine sensor CN1.1

Checks for the absence of chlorine in drinking water in order to protect equipment. Operating period in water without chlorine maximum four weeks. Membrane-covered, amperometric potentiostatic 3-electrode system with integrated electronics.



Product description:

- Masurand(s): NaOCl (sodium hypochlorite), Cl₂ (chlorine gas), electrolytically generated chlorine
- Examination: by means of analytic determination of chlorine by DPD 1 method
- Calibrate the sensor with chlorinated water, establish a separate measurement circuit if required
- Interferences: ClO₂, O₃, bound chlorine may increase the value measured, reducing agent may cause slope loss
- Resolution: 0.001 ppm
- pH range: 6.5– 9
- 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: 0–40 °C, (not any ice cristall in water)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 2 min
- Absence of the disinfectant: max. 4 weeks
- Flow rate: approx. 15–30 l/h, low flow dependence
- Shaft length: standard 190 mm, and 205 mm (Modbus version)
- Connection: 5-pin M12 screwed plug
- Material: PVC-U, PEEK, stainless steel 1.4571, microporous membrane

Areas of application:

- Check for the absence of chlorine in water.

Scope of supply:

- DOSA*Sens* CN1.1 sensor, membrane cap, electrolyte, instruction manual

Ordering data:

| Type: | Measuring range: ppm | Resolution: ppm | Output signal: | Power supply: | Item number: |
|---------------|-------------------------|--------------------|----------------------|------------------------------------|--------------|
| CN1.1H-An-M12 | 0.005–2.00 | 0.001 | 0 to -2000 mV | 9–30 VDC approx. 20 to 56 mA | 3626170 |
| CN1.1N-An-M12 | 0.05–20.00 | 0.1 | (max. -2500 mV)/1 kΩ | | 3626171 |
| CN1.1H-M0c | 0.005–2.00 | 0.001 | Modbus RTU | | 3326610 |
| CN1.1N-M0c | 0.05–20.00 | | | | 3326612 |

Additional technical data:

| Type: | Slope: | Connection: | Special characteristics: |
|---------------|--------------|------------------------|--------------------------|
| CN1.1H-An-M12 | -1000 mV/ppm | 5-pin M12 screwed plug | - |
| CN1.1N-An-M12 | -100 mV/ppm | | |
| CN1.1H-M0c | Modbus RTU | | |
| CN1.1H-M0c | | | |

Spare parts:

| Spare parts: | for sensor type: | Item number: |
|------------------------------|--------------------------|--------------|
| Membrane cap M48.2G | CN1.1 (all types) | 9026021 |
| Electrolyte EMST1/GEL | CN1.1 (all types) | 9026053 |

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 |