

1.1.1 DOSASens Chlorine dioxide Sensor CD10

Sensor for the measurement of chlorine dioxide. Membrane-covered, amperometric, 2-electrode measuring system.



Product description:

- Measurand(s): chlorine dioxide
- Calibration: at the controller, via analytical chlorine dioxide determination by DPD-1 method
- Interferences: Cl₂ does not interfere, O₃ is measured with factor 25 to ClO₂
- pH range: 2 ... 11
- Pressure range: 0 ... 1 bar, no pressure surges and/or fluctuations
- Temperature range: 0 ... 50 °C, (not any ice crystal in water)
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 60 s
- Flow rate: approx. 30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, semipermeable membrane

Areas of application:

- Fresh water, surfactants will be tolerated

Scope of supply:

- **CD10:** sensor, membrane cap, electrolyte

Ordering data:

| Type: | Measuring range: ppm | Resolution: ppm | Output signal: | Power supply: | Item number: |
|-----------|-------------------------|--------------------|------------------------|----------------------------------|--------------|
| CD10H | 0.005 ... 2.000 | 0.001 | 0 ... -2000 mV 1 kΩ | ±5 ... ±15 VDC 10 mA | 3426200 |
| CD10N | 0.05 ... 20.00 | 0.01 | | | 3426201 |
| CD10H-An | 0.005 ... 2.000 | 0.001 | | 9 ... 30 VDC 20 ... 56 mA | 3426210 |
| CD10N-An | 0.05 ... 20.00 | 0.01 | | | 3426211 |
| CD10H-M0c | 0.005 ... 2.000 | 0.001 | Modbus RTU | | 3426220 |
| CD10N-M0c | 0.05 ... 20.00 | 0.01 | | | 3426221 |
| CD10MA2 | 0.005 ... 2.000 | 0.001 | 4 ... 20 mA | 12 ... 30 VDC RL 50Ω ... 900Ω | 3426205 |
| CD10MA5 | 0.05 ... 5.00 | 0.01 | | | 3426206 |
| CD10MA10 | 0.05...10.00 | 0.01 | | | 3426207 |
| CD10MA20 | 0.05...20.00 | 0.01 | | | 3426208 |

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
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Ordering data:

| Type: | Measuring range: ppm | Resolution: ppm | Output signal: | Power supply: | Item number: |
|--------------|-------------------------|--------------------|----------------|----------------------------------|--------------|
| CD10MA2-M12 | 0.005 ... 2.000 | 0.001 | 4 ... 20 mA | 12 ... 30 VDC RL 50Ω ... 900Ω | 3426230 |
| CD10MA5-M12 | 0.05 ... 5.00 | 0.01 | | | 3426231 |
| CD10MA10-M12 | 0.05...10.00 | 0.01 | | | 3426232 |
| CD10MA20-M12 | 0.05...20.00 | 0.01 | | | 3426233 |

Additional technical data:

| Type: | Slope: | Connection: | Special characteristics: |
|--------------|--------------|-----------------|---|
| CD10H | -1000 mV/ppm | 4-pin plug | Connection only to a controller with galvanically separated power supply. |
| CD10N | -100 mV/ppm | | |
| CD10H-An | -1000 mV/ppm | | |
| CD10N-An | -100 mV/ppm | | |
| CD10H-M0c | Modbus RTU | M12 female | Connection only to a controller with galvanically separated power supply. |
| CD10N-M0c | | | |
| CD10MA2 | 8.0 mA/ppm | 2 pole terminal | |
| CD10MA5 | 3.2 mA/ppm | | |
| CD10MA10 | 1.6 mA/ppm | | |
| CD10MA20 | 0.8 mA/ppm | | |
| CD10MA2-M12 | 8.0 mA/ppm | M12 female | |
| CD10MA5-M12 | 3.2 mA/ppm | | |
| CD10MA10-M12 | 1.6 mA/ppm | | |
| CD10MA20-M12 | 0.8 mA/ppm | | |

Spare parts:

| Spare part: | for sensor type: | Item number: |
|---------------------------|------------------|--------------|
| Membrane cap M10N+G | CD10 (all types) | 9026017 |
| Electrolyte ECD4 – ECD7/W | CD10 (all types) | 9026073 |

Accessories:

| Type: | for sensor: | Item number: |
|--------------------------------|---|--------------|
| Sensor simulator pH, Redox, Cl | all sensors with mV signal | 21131100 |
| mV sensor simulator | all sensors with mV signal | 9026205 |
| mA sensor simulator | all sensors with mA signal | on request |
| mV simulator and mA tester | all sensors with mV signal or mA signal | 21131105 |
| Photometer for calibration | all sensors | 90231060 |

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