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|---|---|
|  | <h1>RGbase DCL4.2</h1> |
| <p>maintenance</p> | <p>Regularly control of the measuring signal, min. once a week The following specifications depend on the water quality: Change of the membrane cap: once a year Change of the electrolyte: every 3 - 6 months</p> |
|  | <p>EMC-Testing DIN EN 61326-1, 61326-2-3 RoHS compliant</p> |

Technical Data

1. DCL4.2 (analog output, analog internal signal processing)

analog-out / analog


A potential-free electrical connection is necessary as the sensor electronic is not equipped with a galvanical isolation.

|  | Measuring range in ppm | resolution in ppm | Output Output resistance | Nominal slope (at pH 7.2) in mV/ppm | Voltage supply | Connection |
|---|---------------------------|----------------------|-----------------------------|---|-----------------------|---------------------------|
| DCL4.2N | 0.05...20.00 | 0.01 | 0...-2000 mV 1 kΩ | -100 | ±5 - ±15 VDC 10 mA | 4-pole screw connector |
| DCL4.2H | 0.005...2.000 | 0.001 | | -1000 | | |
| DCL4.2DW | 0.005...5.000 | 0.001 | | -300 | | |
| DCL4.2L | 0.5...200.0 | 0.1 | | -10 | | |
| DCL4.2HUp | 0.005...2.000 | 0.01 | 0...+2000 mV 1 kΩ | +1000 | 10 - 30 VDC 10 mA | |
| DCL4.2Up | 0.05...20.00 | 0.01 | | +100 | | |

(Subject to technical changes!)

2. DCL4.2 (analog output, digital internal signal processing)
analog-out / digital


- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

|  | Measuring range in ppm | resolution in ppm | Output Output resistance | Nominal slope (at pH 7.2) in mV/ppm | Power supply | Connection |
|---|---------------------------|----------------------|--|---|---------------------------------|------------------------------|
| DCL4.2H-An | 0.005...2.000 | 0.001 | analog 0...-2 V (max. -2.5 V) 1 kΩ | -1000 | 9-30 VDC approx. 56-20 mA | 4-pole screw connector |
| DCL4.2N-An | 0.05...20.00 | 0.01 | | -100 | | |
| DCL4.2L-An | 0.5...200.0 | 0.1 | | -10 | | |
| DCL4.2H-Ap | 0.005...2.000 | 0.001 | analog 0...+2 V (max. +2.5 V) 1 kΩ | +1000 | | |
| DCL4.2N-Ap | 0.05...20.00 | 0.01 | | +100 | | |
| DCL4.2L-Ap | 0.5...200.0 | 0.1 | | +10 | | |

(Subject to technical changes!)

3. DCL4.2 (digital output, digital internal signal processing)
digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

|  | Measuring range in ppm | resolution in ppm | Output Output resistance | Power supply | Connection |
|---|---------------------------|----------------------|---|------------------------------|---------------------------|
| DCL4.2H-M0c | 0.005... 2.000 | 0.001 | Modbus RTU There are no terminating resistors in the sensor. | 9-30 VDC approx. 56-20 mA | 5-pole M12 plug-on flange |
| DCL4.2N-M0c | 0.05... 20.00 | 0.01 | | | |
| DCL4.2L-M0c | 0.5...200.0 | 0.1 | | | |


(Subject to technical changes!)

4. DCL4.2 4-20 mA (analog output, analog internal signal processing)

analog-out / analog


A potential-free electrical connection is necessary as the sensor electronic is not equipped with a galvanical isolation.

4.1 Electrical connection: 2 pole terminal clamp

|  | Measuring range | Resolution | Output Output resistance | Nominal slope (at pH 7.2) | Voltage supply | Connection |
|---|-----------------|------------|---------------------------|---------------------------|---|--|
| | in ppm | in ppm | | in mA/ppm | | |
| DCL4.2MA0.5 | 0.005...0.500 | 0.001 | 4...20 mA uncalibrated | 32.0 | 12...30 VDC R _L 50Ω...R _L 900Ω | 2-pole terminal (2 x 1 mm ²) Recommended: Round cable ∅ 4 mm 2 x 0.34 mm ² |
| DCL4.2MA2 | 0.005...2.000 | 0.001 | | 8.0 | | |
| DCL4.2MA5 | 0.05...5.00 | 0.01 | | 3.2 | | |
| DCL4.2MA10 | 0.05...10.00 | 0.01 | | 1.6 | | |
| DCL4.2MA20 | 0.05...20.00 | 0.01 | | 0.8 | | |
| DCL4.2MA-100 | 0.5...100.0 | 0.1 | | 0.16 | | |
| DCL4.2MA-200 | 0.5...200.0 | 0.1 | | 0.8 | | |

(Subject to technical changes!)

4.2 Electrical connection: 5 pole M12 plug-on flange

|  | Measuring range | resolution | Output Output resistance | Nominal slope (at pH 7.2) | Voltage supply | Connection |
|---|-----------------|------------|---------------------------|---------------------------|---|---|
| | in ppm | in ppm | | in mA/ppm | | |
| DCL4.2MA0.5-M12 | 0.005...0.500 | 0.001 | 4...20 mA uncalibrated | 32.0 | 12...30 VDC R _L 50Ω...R _L 900Ω | 5-pole M12 plug-on flange Function of wires: PIN2: +U PIN3: -U |
| DCL4.2MA2-M12 | 0.005...2.000 | 0.001 | | 8.0 | | |
| DCL4.2MA5-M12 | 0.05...5.00 | 0.01 | | 3.2 | | |
| DCL4.2MA10-M12 | 0.05...10.00 | 0.01 | | 1.6 | | |
| DCL4.2MA20-M12 | 0.05...20.00 | 0.01 | | 0.8 | | |
| DCL4.2MA-100-M12 | 0.5...100.0 | 0.1 | | 0.16 | | |
| DCL4.2MA-200-M12 | 0.5...200.0 | 0.1 | | 0.8 | | |

(Subject to technical changes!)

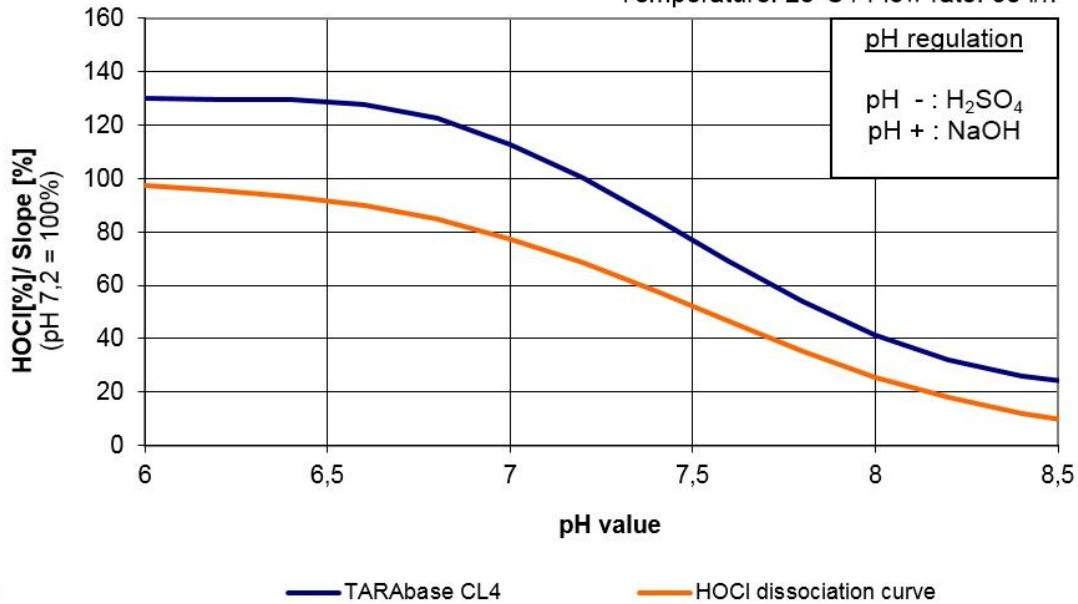
Spare Parts

| Type | Membrane cap | Electrolyte | Emery | O-ring |
|---------------|---------------------------|--------------------------------|----------------------|--------------------------------|
| For all CL4.2 | M20.2 Art. no. 11011.1 | ECL1, 100 ml Art. no. 11001 | S1 Art. no. 11908 | 14 x 1.8 NBR Art. No. 11806 |

(Subject to technical changes!)

Slope of TARAbase CL4 versus pH

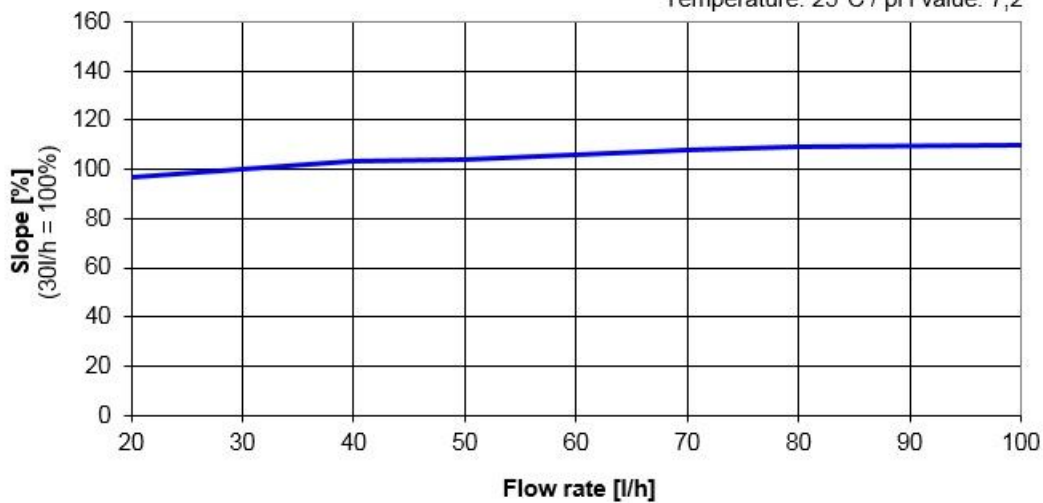
Temperature: 25°C / Flow rate: 30 l/h



CL-Dringwaren

Slope of TARAbase CL4 versus Flow rate

Temperature: 25°C / pH value: 7,2



CL-Dringwaren

This values are only valid for the probe housing FLC1 / FLC3