	Please note Chlorine dioxide can also be determined using a photometer intended for chlorine. The result must be multiplied by a factor of 1.9. Ozone can also be determined using a photometer intended for chlorine. The result must be multiplied by a factor of 0.68. At higher concentrations of disinfectant the DPD colouration may fail to appear.

7. Removal

Warning	
	• Removal of the sensor can lead to an incorrect measuring value at the input to the measuring and control device, which can cause the control circuit to apply uncontrolled dosing. • See also safety instructions under section. 5.4, page 22. • The following instructions must be followed.

Before removing the sensor:

▶ Switch off the measurement and control system or switch it over to manual operation.

▶ Close the inlet of the measuring water.

▶ Close the outlet of the measuring water.

▶ Remove the electrical connection.

To disconnect a sensor with a 2-pole screwed terminal block:

▶ Undo the cable gland.

✓ The cable is now free to move.

▶ Unscrew the hood with the cable gland from the sensor.

▶ Release the cable cores from the terminals.

▶ Undo the screw fastening and carefully pull the sensor out.

8. Maintenance

Warning	
	• Misdosing occurs due to wear or premature ageing. • Observe regular maintenance intervals. • Monitor their process constantly. • See also Maintenance overview under Tab 7, page 28.

8.1 Maintenance overview

▶ To ensure optimum performance of the sensor:

▶ Perform the following actions at regular intervals :

Maintenance task	Interval
▶ Change the electrolyte	• 3-6 months
▶ Change the membrane cap	• Annually
▶ Perform calibration	• Weekly • After the electrolyte and/or the membrane cap has been changed

Tab 7: Maintenance overview

8.2 Changing the electrolyte and membrane cap

▶ Lift the hose ring ① sideways off the membrane cap and slide it down.

➥ The valve opening ② is now exposed.

▶ Unscrew the membrane cap.

➥ Air can now flow through the valve opening.

▶ Empty electrolyte from the membrane cap.

▶ Rinse the membrane cap with mains water.

▶ Rinse the electrode finger with mains water

① Hose ring

② Valve opening

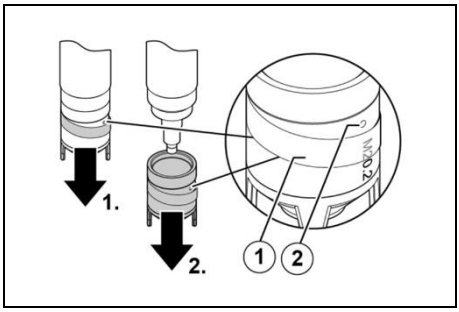

Fig. 10: Lifting off the hose ring

- ▶ Lay a piece of special emery paper on a paper wipe.
- ▶ Hold the sensor upright.
- ▶ Hold the special emery paper in place and move the tip of the working electrode over it at least twice. Use a fresh area of the emery paper for each pass.

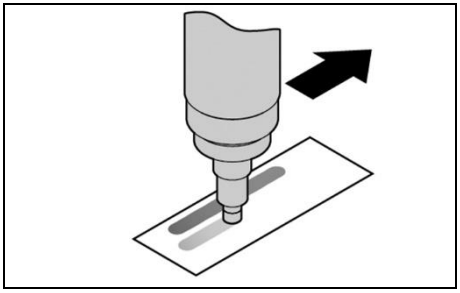

Abb. 11: Using emery paper to clean the working electrode

- ▶ Return the hose ring to its original position.

↪ The valve opening is now covered.

ⓘ	**Please note** When changing the membrane cap: Use a new membrane cap.

- ▶ Perform the same operations as for commissioning (see section 5, page 18).

↪ Maintenance has now been completed and the sensor can be put-back into use.

9. Troubleshooting

Various factors in the environment can affect the sensor.
If irregularities occur, it may be useful to check these factors:

- Flow rate
- Measuring cable
- Measuring and control device
- Calibration
- Dosing equipment
- Concentration of the disinfectant in the dosing container
- Suitability of the sensor for measuring the disinfectant that is being
- dosed
- Concentration of the disinfectant in the measuring water (determined
- by analytical methods)
- pH value of the measuring water
- Temperature of the measuring water
- Pressure in the flow chamber
- Analytical methods