

Instruction manual for SteamLine

Sterilizable maintenance-free

pH- and Redox-electrodes

also with integrated temperature sensor



Preparation and general

Check electrode before using for the first time whether it has incurred any damage during transport.

Calibration and measurement

Observe relevant operating instructions of the measurement system, i.e. meter and probe holder.

Storage

When not in use, store the electrode in irrigation fluid (L 911), either in the irrigation cap or in a suitable container. If the electrode has inadvertently been stored dry, it can be conditioned by immersing it into irrigation fluid for at least 24h.

Cleaning

Dirt and contamination on the membrane/Pt sensor and diaphragm will lead to measurement inaccuracies. Contaminations can be replaced with following procedure:

- **Coatings and deposits** can be removed with diluted mineral acids (e.g. hydrochloric acid)
- **Organic contaminations** with the aid of suitable solvents
- **Grease** with tenside solution or alcohol
- **Proteins** with hydrochloric pepsin solution (cleaning solution L 510)

During maintenance there is to pay attention to:

- After cleaning, rinse off the electrode with distilled water, do not rub dry
- Ceramic diaphragms blocked from outsides can be restored to working order by carefully rubbing down with fine sandpaper or a diamond file. **Take care not to scratch the pH glass membrane!**
- The glass membrane can be cleaned by rubbing off with a fluff-free cloth soaked in ethanol.
- The metallic sensor can be treated by chemical cleaning (e.g. with diluted hydrochloric acid) or carefully cleaning with sandpaper.
- **Caution:** HF, hot Phosphoric acid and strong caustic solutions will attack glass.

Quality

Every electrode must meet the strict quality requirements of final testing.

Life expectancy in operation depends on severity of operating conditions. High temperatures and aggressive media will reduce the useful lifetime.

Further information

Further information can be found in the Laboratory catalogue and in the Process electrodes catalogue of SI Analytics GmbH or you will find more tips in the operating instruction of your meter.

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