

GETTING STARTED WITH REDOX ELECTRODES



1. UNPACKING

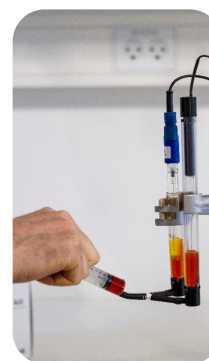
- Remove the grey shock-absorbing plastic net and inspect the microelectrode visually.
Leave the microelectrode in the protection tube for testing.

2. CONNECT THE REDOX ELECTRODE TO THE AMPLIFIER

- Connect the reference electrode to the connector on the redox electrode cable
 - If using a micro reference electrode, remove the plastic net, the 2 pieces of tape and the stopper. Storage liquid is 2 M KCl and it may be re-used.

3. CALIBRATE THE REDOX ELECTRODE

- Mount the calibration caps from the Calibration Kit on the protection tubes of the redox and reference electrode. Connect the two caps using the Y-piece and the tubing.
- If using a Robust Reference electrode, mount the calibration cap on the 10 cm plastic tube and place the reference electrode in that.
- Inject the redox calibration solution and allow the electrode to stabilize.
- Record the calibration point (select 1-point calibration in SensorTrace Suite).
- Rinse the calibration caps and the syringe with pure water.
- Inject the redox test solution and allow the electrode to stabilize.
- The signal should now be at least 200 mV below the signal for the redox calibration solution
- For alternative calibration method, see the Redox Microelectrode manual.



Injecting calibration liquid into the protection tubes using the calibration caps from the calibration kit

NOTE! A reference microelectrode must be stored wet. Do not allow it to be exposed to air for more than 10 min.

IMPORTANT! For any calibration method and measurements, there must always be liquid continuity between the tips of the redox and reference electrodes.

NOTE! For redox microelectrodes with built in reference electrode: Do not connect an external reference electrode, only connect a Calibration Cap to the protection tube. Otherwise perform the calibration as described above.

4. APPROVE THE SENSOR

- Compare the electrode response to Unisense Standard specifications (incl. in sensor box). If necessary, see Troubleshooting in the Redox Microelectrode manual or contact support (see below)

5. STORAGE

- When not in use, store the microelectrode in the protection tube at 10 - 30°C. Redox microelectrodes with built in reference electrode must be stored in a 2 M KCl solution.

USEFUL TOOLS



For support go to www.unisense.com/support/ or contact sales@unisense.com



Get the full manuals for all sensors, equipment & software at www.unisense.com/manuals/.



Redox Micro-electrode Manual



Calkit-Redox Manual



SensorTrace Suite Manual



Find SDS for Calibration Kit here