Operating Instructions for Polargraphic/Galvanic Dissolved Oxygen Electrode

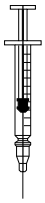
Preparation for Use

Packing Contents →

Electrode with Membrane Fitted

Spare Membrane Cap

Bottle of Fill Solution



Syringe Fitted with Plastic Needle

Manual

Calibration

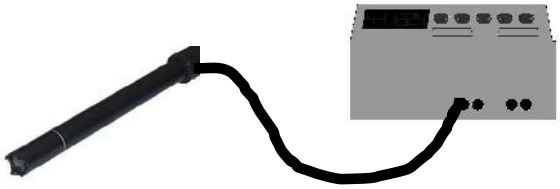
1. Remove the membrane cap from the tip of the electrode and fill with solution supplied. Take care not to over-tighten the membrane cap as this may cause the membrane to "balloon" which will cause erratic readings

Remove the membrane

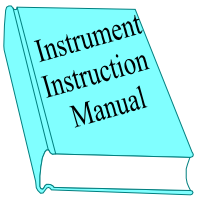
Fill with Solution

Do not over-tighten, as this will cause the membrane to balloon

2. Connect the electrode to your Dissolved Oxygen meter according to the instrument instruction manual.



Connect the electrode to DO Meter



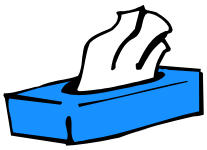
3. Allow the electrode to polarise for approximately 30 minutes.(for Galvanic approximately 5 minutes)

4. Place the electrode in saturated solution of sodium Sulphite and allow the electrode to stabilise. This solution is a zero Oxygen calibrant. Some instruments will automatically calibrate to 0.00% while others will require manual adjustment.

5. Remove the electrode from the zero % solution, and rinse in de-ionised water. Gently dry the membrane tip with a tissue and allow the electrode to stabilise in air, again some instruments will calibrate to 100% in air while others will require manual adjustment.

Rinse in De-ionised water

Dry tip →



With tissue

Electrode stabilise in air

6. Your electrode is now ready to use.

Maintenance

From time to time membranes will need to be replaced as necessary. When refilling your electrode, inspect the metal internal parts for tarnished surfaces. Cleaning can be performed using crocus paper or Jewellers rouge, with a final wipe with a propanol soaked tissue.

Trouble Shooting →

Low reading (0.00%) in all solutions. → *Replace Membrane*

Erratic readings. → *Turn membrane back ¼ turn and gently retighten.*

Electrode fails to achieve zero cal. → *Refill membrane introducing as little air possible and gently tighten when replacing.*