



## ST20D Membrane Installation

1. Place the supplied O-ring into the rim of a new DO membrane
2. Fill the membrane with the HI 7042S Refilling Electrolyte solution. There should be sufficient solution in the membrane that it overflows when you screw it on to the probe.
3. Once the membrane is filled with the solution tap the membrane a couple of times to eliminate any air bubbles from the membrane. You will see the air bubbles rise to the top of the solution.
4. Keep the membrane facing vertical and place the probe onto the membrane. Screw the cap onto the probe and observe the membrane to ensure there are no air bubbles. If there are air bubbles you will see white circular bubbles within the membrane.
5. If this does occur, remove the membrane and tap it to make sure there are no air bubbles and once again install it onto the probe.

## ST20D Calibration Guide

1. Turn Meter on and warmup for ten minutes. After ten minutes the meter will automatically turn off.
2. Turn the meter back on and press the CAL button. Hold the meter vertically in the air. The meter will display "100" and blink under the signal. The meter is now calibrating 100% dissolved oxygen. Once the reading is stable (after 3 to 5 minutes), press HOLD/ENTER button to accept the reading.
3. You now have two options:
  - a) Press the HOLD/ENTER button to complete 1 point calibration and exit to measurement interface.
  - b) Place the ST20D into the Zero-Oxygen solution. Press CAL button to perform 0% point calibration, LCD will display and blink "0" under the signal. Once the reading is stable (after 3 to 5 minutes), press HOLD/ENTER button to accept the reading and exit to measurement interface.

**NOTE:** 0% calibration is suggested when measuring samples with less than 10% dissolved oxygen. Otherwise a 1 point calibration at 100% is sufficient.

Zero-Oxygen solution is saturated Na<sub>2</sub>SO<sub>3</sub> solution. Ohaus offers DO zero-oxygen chemical (30059257).



## **Sample measurement**

1. Rinse the sensor with deionised water to remove any contaminants.
2. Place the meter in the sample and wait for the reading to stabilise.

## **Maintenance**

- If using the meter intermittently, remove cap, empty filling solution and rinse with deionised solution.
- The membrane should always be full of the OHAUS Refilling Electrolyte Solution when taking dissolved oxygen measurements.
- When the membrane becomes wrinkled and turns a white colour the membrane must be replaced.