

Instructions for Calibration of Meters Saltwatch 2005 (May 9 – 15)

Step 1:

Rinse a glass or plastic jar with clean water 3 times, then rinse it once with a small amount of the calibration solution and discard that solution. Then add fresh calibration solution to the jar, just enough to cover the electrodes on the salinity meter.

Step 2:

Remove the protective cap from the meter and rinse the end (electrodes) in clean water and then in a small amount of calibration solution.

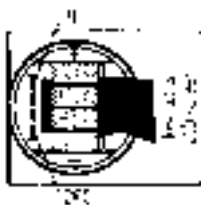
Step 3:

Switch on the meter and immerse the electrodes in the calibration solution (gently swirl the meter while it is in the solution). Do not fully immerse your meter; only submerge electrodes sufficiently to read values.

Step 4:

Once the reading has stabilised, record the reading on your Data Record Sheet under the section: "Electrical Conductivity reading before Calibration." If the meter displays a value different to the value of the calibration solution, you need to adjust your meter until the reading coincides with the calibration solution using the instructions below or if you have different equipment then use manufactures instructions:

- **TDScan (2, 3, 4 and 20) and Hanna Dist WP4:** Locate the small screw on the back or top of the meter (this may be labelled as a trimmer in the manufacture's instructions). Use a small screwdriver ('calibration key') to adjust this calibration screw so that the reading on the screen coincides with the value of the calibration solution.
- **ECScan High:** Unscrew the top of the meter and locate the white adjustment buttons to side of the batteries. Use these buttons to adjust the reading on the screen until it matches the value of the calibration solution. You may need to multiple reading by 1000 so that it matches the value written on the calibration solution (For more detailed instructions consult your meter's manual or Waterwatch SA instruction cards). Information on salinity conversions is provided on the Waterwatch SA website www.sa.waterwatch.org.au under Saltwatch.



(Left) ECScan High meter: Showing the location of adjustment buttons.

Step 5:

Turn off the meter and rinse the electrodes in clean water. Carefully remove excess water. Dry and then replace the cap and store the meter away.

Note:

Any unused calibration solution can be stored for 6 months and used to calibrate meters again.