Conductivity Meter Calibration

Key Points

1. After receiving a new conductivity meter remove the electrode cap and soak the meter for a few minutes in alcohol to remove oils. Do not submerge the meter below the cap line. Rinse with water and gently blot dry with a paper towel.

2. Always calibrate the conductivity meter with the Sodium Chloride Standard Solution prior to each sampling event. It should be calibrated to read 1000 µS/cm ± 10 µS/cm (preferably within 12 hours). Remember that µS/cm and µmhos/cm are interchangeable. The old data sheets still have µmhos/cm as the increment for reporting conductivity, but the new sheets, provided in this notebook, have been updated to reflect that the meters we now use report conductivity in µS/cm.

3. To calibrate, use the following instructions which are also located inside the conductivity meter case.

    - Open the battery compartment lid (end with lanyard loop). The two white buttons are Increment (INC) and Decrement (DEC) calibration keys.

    - Rinse the electrode in deionized water, then rinse it in calibration standard (solution), then dip it in a container of calibration standard.

    - Switch unit on (ON/OFF) key). Wait several minutes for display to stabilize

    - Press the INC (increase) or DEC (decrease) keys to adjust reading to match the calibration standard value.

    - After 3 seconds without a key press, the display flashes 3 times, then shows "ENT". The tester accepts calibration value; returns to measurement mode. The meter is now calibrated.

    - Replace battery cap.

4. Be sure the probes are dry when storing the meter.