

*Dissolved Oxygen Calibration  
and Measurement with Hach Meter (Sension6)*

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CALIBRATION

- Saturate sponge inside the tip of the membrane cap. Press the sides to expel excess water.
- Allow a minimum of ten minutes for the atmosphere in the chamber to reach a steady state.
- Turn power on by pushing blue power/exit key.
- Press the DO% key to put the meter in DO% reading mode.
- Press the READ button to get the pre-calibration value
- Record the DO% reading after the reading has stabilized.
- Press the **cal** key located in the lower left corner of the keypad.
- The main display will show 100%. Press Enter key. The stabilizing icon will appear while the meter completes the calibration. Make sure to read in **% ONLY**.
- When the calibration is complete, the meter will return to the reading mode.
- Record the calibration information on the Dissolved Oxygen Calibration sheet.

***Waccamaw River Volunteer Monitors' Standard Operating Procedure: KCH 011009***

SETUP

- *If the meter has not been recently used and the membrane cap does not contain filling solution, make sure the DO probe cable connector is not connected to the input plug at the top of the meter. If the probe is not unplugged and the membrane is removed, the probe may be damaged.*
- *Insert batteries in the meter if they are not present or need replacement.*
- *Check the condition of the probe membrane. The membrane should be smooth and free of holes or debris. Replace the membrane if it is worn. If it is necessary to remove the membrane cap be sure to disconnect the probe cable connector from the meter.*
- *If the membrane needed to be replaced, get a new membrane cap and fill the membrane cap 2/3 of its capacity with DO electrolyte-filling solution.*
- *Gently screw the membrane cap on the tip while holding the DO probe in a vertical position. Some electrolyte solution should leak out of the cap. If electrolyte does not leak out of the threads, air may remain inside the module cap. If some electrolyte does not leak out, repeat this procedure using more filling solution to ensure accurate results.*
- *Remove the cap from the bottom of the rubber-probe-calibration-storage-chamber. Saturate it with water. Squeeze the excess liquid from the sponge. Reattach the cap to the bottom of the calibration and storage chamber, and insert membrane end of probe into other end of chamber.*
- *If it was not attached, attach the DO probe cable connector to the input plug at the top of the meter.*
- *If the cable was just attached to the meter, allow the probe to polarize by waiting 30 to 50 minutes. After this time a steady reading can be maintained.*
- *If the probe cable was already attached to the meter (i.e., membrane was not changed), allow a minimum of ten minutes for the atmosphere in the chamber to reach a steady state.*
- *The meter must be calibrated at least weekly when being used for measurements in the field or laboratory, and the calibration must be checked within the 24 hours prior to use.*