

Dissolved Oxygen (DO) Meter Calibration Policy
(NC WW/GW LC Branch 04/07/2020)

Meters are to be calibrated according to the manufacturer's calibration procedure prior to analysis of samples each day compliance monitoring is performed. DO meter calibrations are affected by three parameters; temperature, the elevation or barometric pressure, and the Salinity of the sample to be analyzed. Many modern DO meters are capable of measuring those parameters and correcting for them during the calibration procedure. These DO meters typically measure Conductivity and use that value to calculate the Salinity value. **In order to obtain accurate Salinity values for the DO meter calibration, the meter must first be calibrated for Conductivity.**

Since the effect on oxygen solubility is < 0.5 mg/L when Salinity values are ≤ 9.0 ppt and sample temperatures are above 11 °C, **all facilities may use the DO meter calibration default Salinity value of zero, unless it is known or suspected that the Salinity value of the samples being analyzed is > 9.0 ppt.**