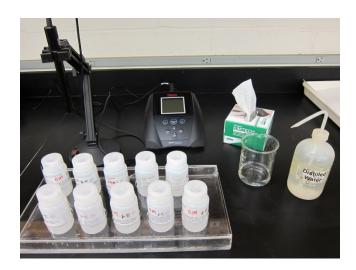
Instructions for Thermo Scientific Orion Star A112 Conductivity Meter





Single Point Conductivity Calibration

- 1. Use the 1413 μS/cm conductivity standard.
- 2. Rinse conductivity probe with distilled water, insert into standard and stir gently.
- 3. Press "cal". "Cal" will appear in upper right of display. Wait for "ready" to appear.
 - a. If "AUTO" Appears at the top of the display, the standard was recognized. Press "mode (enter)" to view the calculated cell constant.
 - b. After 2 seconds, meter will go to measurement mode.

Conductivity Measurement

- 1. If units are not μS/cm or mS/cm press "mode (enter)" until the correct units are shown.
- 2. Rinse conductivity probe with distilled water and blot dry with kimwipe.
- 3. Insert into sample and stir gently.
- 4. Press "measure"
 - a. Record conductivity and temperature of sample when "READY" is displayed and unit of measurement stops blinking. *Make sure to record unit*. *Meter shows μS/cm or mS/cm depending on sample, so recording unit is very important*.
- 5. Remove probe from sample, rinse and blot.
- 6. For storage between samples, probe may be stored in distilled water. For long term storage, it should be stored dry and clean.

Table 1: Ranges of Conductivities for Different Types Electrolytes (0.1 M solutions)

Type of Electrolyte	Range of Conductivity Measurements
	Based on measurements using our meters
strong	20.0–50.0 mS/cm
weak	700–5000 μS/cm (or 0.70–5.0 mS/cm)
non	0–10 μS/cm