

Using the Accumet AR15 pH Meter

SGM 01/13

1. The pH meter should be in “Standby” mode. Touch anywhere on the screen to bring it to operational mode.
2. Press the button **pH** in order to measure pH.
3. Press the **std** button to begin calibrating the meter. Touch **clear** to delete a previous standardization. Several beaker icons and associated numbers representing the pH of various calibration buffers should disappear.
4. Remove the electrode from its storage container and rinse it with DI water by squirting water on it. Make sure to do this over a beaker to collect the water. *The electrode is very sensitive and delicate. Make sure the tip does not rub against anything solid.*
5. Carefully immerse the electrode into a container of buffer. The buffers are marked: 4, 7 and 10. Press **std** once the electrode is immersed in a buffer to begin standardization.
6. Wait for the meter to stabilize – The meter will display “stable” under the measurement and a beaker icon and the entered pH value will also appear on the screen. The meter will also switch to the “measure” screen.
7. Remove the electrode from the buffer, and rinse with DI water.
8. Select **Std** again and repeat steps 5 through 7 with the other two buffers. You will then have calibrated the device.
9. To take a measurement, rinse your electrode with DI water and insert it into a sample. Select **Meas** to measure the pH of the sample. Wait for the meter to readout “stable” and then take the measurement.
10. Make sure to rinse the electrode with DI water after each measurement.
11. If you are not going to use the electrode for half an hour or longer, return it to its storage container; otherwise, the electrode will begin to dry out, rendering the readings inaccurate.