

## *pH Test with HACH Sension1 and Orion 250A+*

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING TESTS.

**Wear gloves at this station.**

**Note: Calibrate Instrument at least once each day of use prior to beginning analysis.**

### **Calibration**

1. Press ON/OFF button to turn on.
2. Using three small white plastic cups, pour each buffer solution (4.01, 7.0, and 10.0) into its own cup. Also fill a cup with DI water to rinse the electrode.
3. Press the **cal** button. Dip electrode  $\frac{1}{2}$  to 1 inch into 4.01 buffer solution. When **1?** appears in the upper right corner, press the **READ/enter** button. The meter will beep three times when it has stabilized. If the meter does not read 4.0, the reading can be adjusted to the correct measure by pressing the up and down arrows. When a number is changed, press **READ/enter** to move to the next number.
4. Remove the electrode from the buffer solution, rinse with DI water, and place in the 7.0 buffer. When **2?** appears in the upper right corner, press the **READ/enter** button. The meter will beep three times when it has stabilized. Repeat this process for the 10.0 buffer solution when **3?** appears on the screen.
5. When complete, record slope and determine that it is within appropriate level of 58 +/- 3. Press **READ/enter** to approve the slope and begin measurement.

### **Measurement**

1. Press ON/OFF button to turn on.
2. Dip electrode  $\frac{1}{2}$  to 1 inch into the sample and let meter stabilize. Make sure the meter is reading pH values by pressing the pH mV button.
3. Record the pH reading when the meter has stabilized.
4. Rinse electrode with de-ionized water before testing next sample.
5. When all analyses are complete, put the liquid-filled storage container back on the electrode for storage.