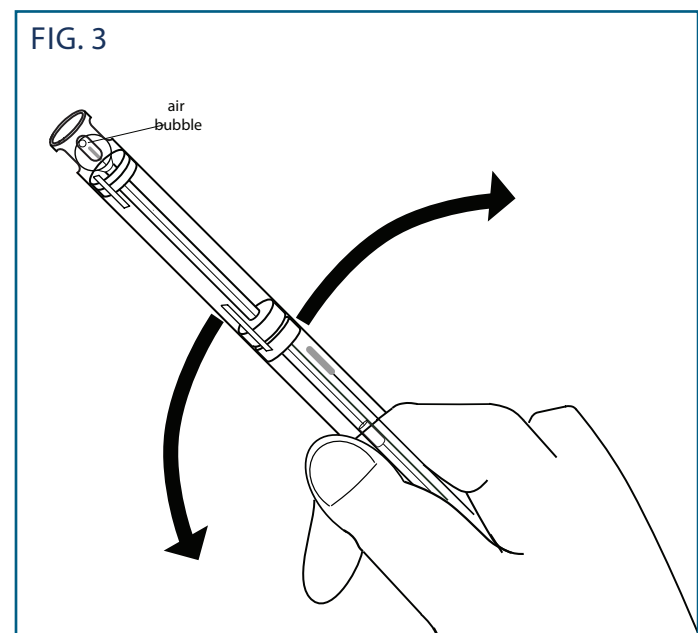
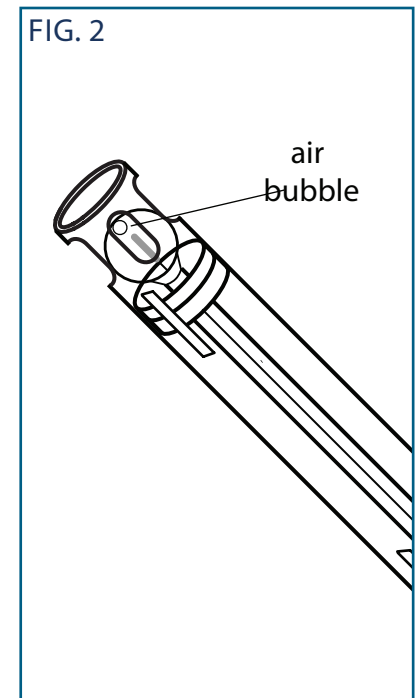
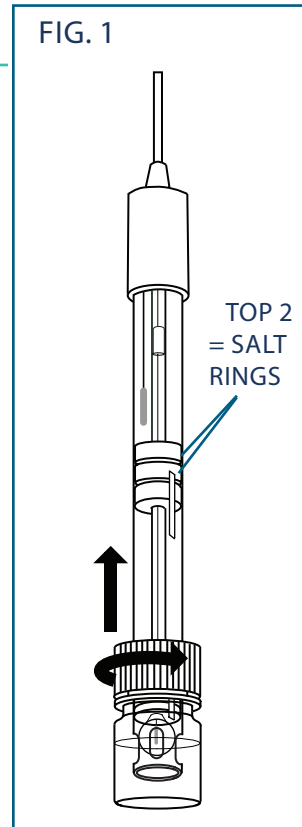


INTRODUCTION

Thank you for choosing your Sensorex Pool Plus sensor. Single and double junction references are available as well as the PP300 which combine both pH and ORP measurements in one convenient body.

HELPFUL OPERATING TIPS

1. The electrode is shipped in a plastic bottle containing a solution of pH 4 buffer and potassium chloride. The electrode should remain in the bottle until it is used. If the electrode is used infrequently, the bottle and its solution should be saved and the electrode stored in it (See Electrode Storage Section). Take out electrode by loosening plastic top on bottle counterclockwise and pulling electrode out. Slide cap and O-ring off electrode and save (SEE FIG 1).
2. During shipment the air bubble in the electrode's stem may move into the bulb area. If bubbles are seen in the bulb area, hold the electrode by its top cap and shake downward as is done with a clinical thermometer (SEE FIG 3).
3. Vigorously stir the electrode in the sample, buffer, or rinse solution. This action will bring solution to the electrode's surface quicker and improve the speed of response.-
4. After exposure to sample, buffer, or rinse solution, shake the electrode with a snap motion to remove residual drops of solution (SEE FIG 3 on next page). This action will minimize contamination from carryover.
5. As a rinse solution, use a part of the next sample or buffer which is to be measured. This action will also minimize contamination from carryover.
6. When calibrating, use a buffer close in value to that expected from the sample. This action will minimize span errors.
7. Keep buffers and samples at the same temperature. This action will eliminate the need to correct values for temperature effects.
8. Your electrode is supplied with 2 salt rings to help extend use life. When the salt rings have dissolved, it is suggested to buy a new electrode. See FIG 4.



CALIBRATION

Follow the calibration instructions in your pH controller user manual. Be sure to do at least a 2-point calibration for the best accuracy. Use fresh buffers (don't leave out exposed to air for more than 2 hours).

ELECTRODE STORAGE

Your electrode is supplied in a soaker solution bottle. The solution is 1.5M KCl.

NOTE: Never store electrodes in deionized or distilled water. This will draw out the salt in the electrode and cause a shift in readings that may not allow calibration.

CLEANING

Clean the sensor body by rinsing with DI or distilled water or you can use dilute dish soap. Solvents like alcohol will dry out the pH glass and adversely affect readings. DO NOT USE A BRUSH ON THE pH GLASS as this can scratch the glass and ruin the electrode. Line scale or other hard coatings can be removed using 5% HCl.

After cleaning, it is always suggested to re-calibrate.

REDOX (ORP) SENSORS

Basically the same applies to redox (ORP electrodes) as to pH electrodes. There are commercially available redox reference solutions with for example approx. 228mV or 465 mV to check the function of the redox electrode. Please note that some ORP instruments have calibration capability while others do not.

WIRING

All Pool Plus sensors are supplied with a BNC connector. The PP300 dual pH/ORP sensor is supplied with 2 each BNC connectors. Attach the sensor to the controller based on the cable ID markings. See FIG. 5.

