GLASS BODY FLAT SURFACE PH AND ORP PRODUCT INSTRUCTIONS

INTRODUCTION

Thank you for choosing your Sensorex glass body, flat surface pH or ORP sensor. The sensors are shipped to you in a bottle of storage solution that makes them ready for immediate use.

HELPFUL OPERATING TIPS

1) Remove the storage bottle by rotating the cap counter clockwise until it is free of the bottle. (SEE FIG 1)Remove the sealing o-ring and bottle and set aside for later storage (if required)
2) Calibrate the electrode with known standard solutions prior to installing in your process. Choose at least 2 standard solutions for pH calibration. Keep standard solutions covered when not using for longest life.
3) Sensor life is determined by the salt rings. If present, sensor is still usable, if gone sensor should replaced. see FIG 2.

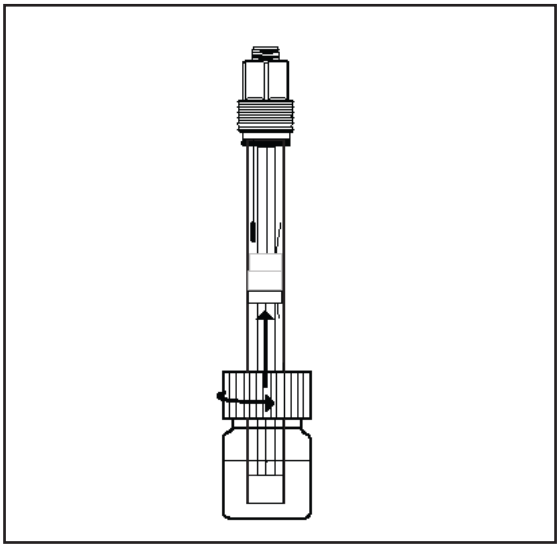

FIG. 1

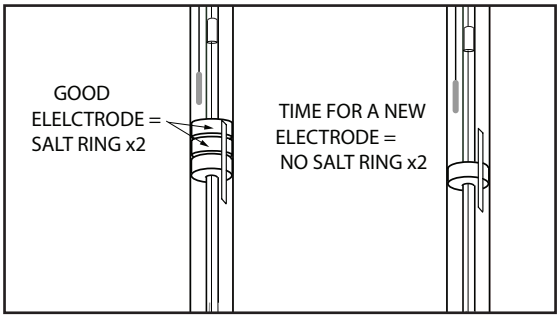

FIG. 2

CALIBRATION

It is always suggested to calibrate your pH electrode in at least 2 pH buffers for best accuracy. Choose pH7 or pH6.86 and a second buffer to calculate the slope. (See FIG 3.) Follow all instructions in your pH instrument manual.

1. Remove the electrode from the soaker bottle and save the bottle.
2. Vigorously stir the electrode in clean water rinse solution
3. Shake the electrode with a snap to remove residual rinse solution.
4. Place sensor in 1st buffer and use the sensor to stir the buffer. Let go of the sensor then take reading.
5. Allow the reading to stabilize.
6. Repeat the above steps for each buffer for calibration. Note that at least 2 buffers must be used.
7. For ORP calibration, refer to your manual to see if the meter/controller supports ORP calibration.

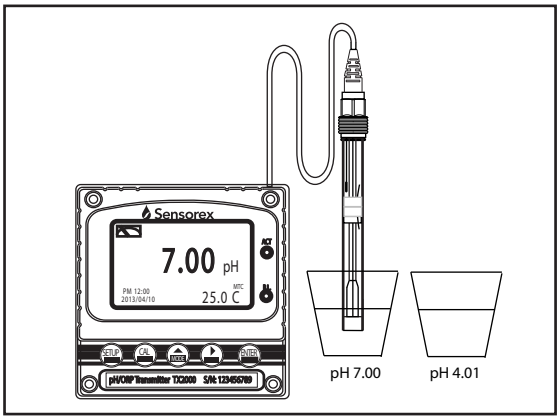

FIG. 3

Products covered by this manual: SG354CD, SG355CD, SG354CD-ORP-AU, SG355CD-ORP-AU

INSTR-SG354/SG355-01222024

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ELECTRODE CLEANING

pH Electrode Cleaning: Coating of the pH glass may lead to erroneous readings. The type of coating determines the cleaning chemical and technique. Soft coatings can be removed with stirring in water or using water in a squirt bottle. Oily or dirty coatings should be removed with dilute dish soap. Hard coatings such as lime scale can be cleaned with 5% hydrochloric acid (HCl).

Do not use a brush to clean the pH glass or ORP gold surface since this may scratch it and cause erroneous readings. See FIG. 4.

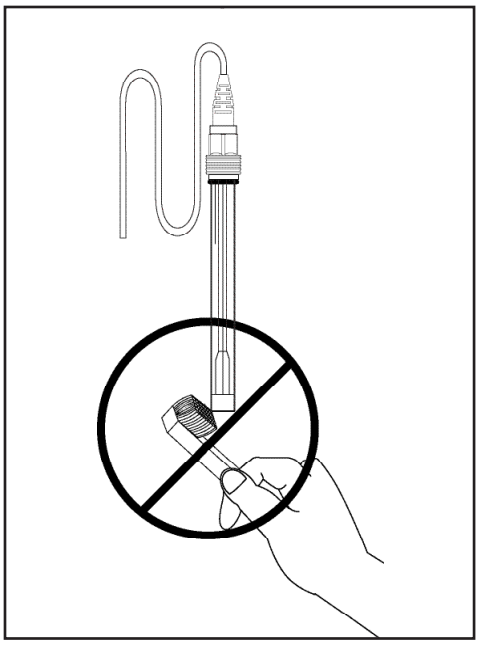

FIG. 4

ELECTRODE STORAGE

Your electrode is shipped in a storage solution of pH4.01 buffer + potassium chloride (KCL). You can save this and reuse for storage or store the electrode in pH4.01 buffer. DO NOT STORE ELECTRODE IN DEIONIZED OR PURIFIED WATER.

MECHANICAL INSTALLATION

Install the sensor into your flow cell using a wrench to tighten the sensor at the hex fitting. Note that the white spacer and o-ring must be installed in the order shown in FIG 5 to ensure proper seal and prevent leakage.

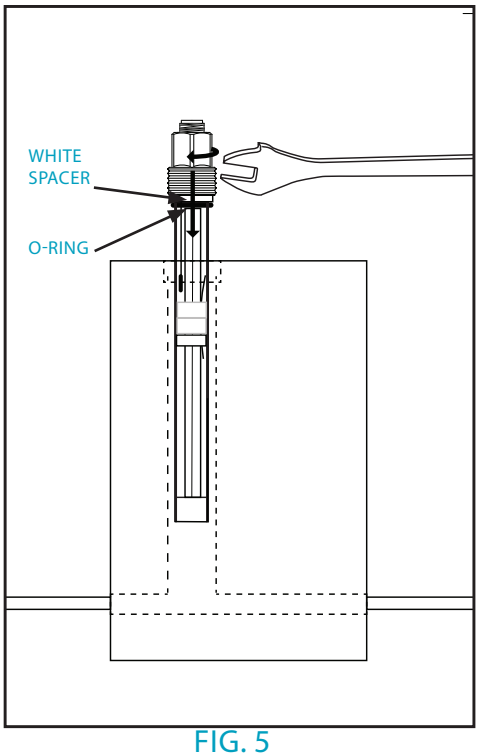

FIG. 5

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