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Topic - Cleaning and Calibrating the PYXIS ST-500 PTSA probe using the uPYXIS app

A clean PTSA probe is required for accurate traceability to maintain proper water chemistry. We recommend cleaning the probe once a month for normal applications. Increasing the cleaning frequency may be required in applications with excessive suspended solids, corrosion and scale by products. Calibrating a checking the cleanliness of your probe can be easily accomplished by using the *uPYXIS* app with a MA-WB wireless WiFi adaptor.

Required Items:

- 1. Field Cleaning Kit part number **SER-01**. The cleaning kit comes with a 500mL of probe cleaning solution, enough for five cleanings, a 500mL bottle of 100ppb calibration solution, along with a pipe cleaner, Q-tips, and a Mason jar.
- 2. **MA-WB** wireless WiFi adaptor. The adaptor comes with connecting cables. These two items are available from *Pyxis Lab*, *Inc* www.pyxis-lab.com
- 3. Distilled or de-ionized water for rinsing the probe.
- 4. Android or IPhone
- 5. The *uPYXIS* app

The following instructions are using the free *uPYXIS* app that is available for Apple and Android phones.

I. Probe Cleanliness Check

A. Disconnect the probe from the interface box.



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- B. Connect the probe to the MA-WB wireless adaptor.
- C. Connect the MA-WB wireless adaptor to the interface box.



D. Making sure that your WiFi is enabled on your cell phone, open the *uPYXIS* app and connect to the ST-500 WiFi network using "pyxis2015" for the password. Open the *uPYXIS* app and select "Diagnostics" and the "Cleanliness Check." If dirty, follow the process below; if "Clean" go to step F.

E. Cleaning steps:

- 1. Fill the beaker with 100 mL of cleaning solution.
- 2. Insert the probe and let it soak for 15 minutes.
- 3. Remove the probe and run the pipe cleaner through the hole from both sides performing a scrubbing action.
- 4. Next use a Q-tip to dry off the remaining residue.



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- 5. Place the probe back into the cleaning solution for another 15 minutes.
- 6. Rinse the probe in distilled or de-ionized water.
- 7. Perform another diagnostics cleanliness check. The probe should read "Clean." If not, repeat the cleaning steps.
- 8. If clean, proceed to calibration.

II. Perform Calibration

- F. Place the probe in distilled or de-ionized water and wait a few minutes for the reading to stabilize.
- G. Select "Calibration" and the "Zero Calibration" on the app.
- H. You should see "Calibration Succeeded OK."
- I. Next, place the probe in 100 ppb calibration solution and wait a few minutes for the reading to stabilize.
- J. Select "Slope Calibration" and enter 100 in the text box.
- K. Enter "Slope Calibration."
- L. You should see "Calibration Succeeded."

NOTE To see a video of the cleaning and calibration processes along with use of the adaptor and *uPYXIS* app visit: https://www.youtube.com/watch?v=Z5SLEzhBb3M