Aqua TROLL Antifouling Restrictor

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- Antifouling Restrictor
- Calibration Sleeve

This restrictor requires different calibration procedures than the standard restrictor. For accurate calibrations, follow the instructions below. Refer to the user manual for detailed cleaning and calibration procedures.

RDO 100% Saturation Calibration: Water Saturated Air

Use the procedure below to calibrate the Aqua TROLL RDO sensor.

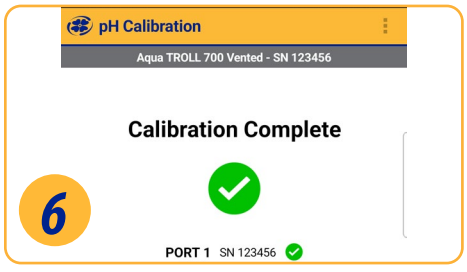
Slide the calibration sleeve onto the restrictor until it is fully seated.

Saturate a small sponge with water.

Place the sponge on the restrictor cap.

Loosely install the end cap, keeping the sensor face dry and allowing for air flow.

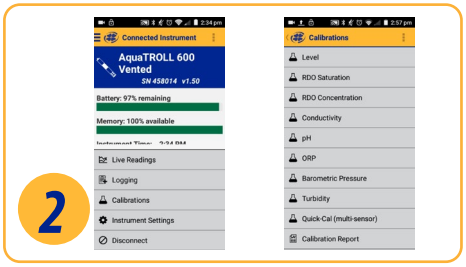
Leave sponge in restrictor for five minutes.



Follow the instructions in VuSitu to finish calibration.

Solution-Based Calibration

Slide the calibration sleeve onto the restrictor until it is fully seated.

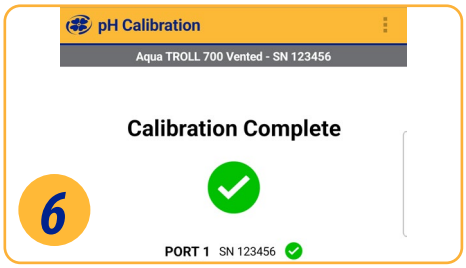


In VuSitu, click **Calibrations** from the Connected Instrument screen and choose a sensor to calibrate.

Pour 10-20 mL of DI water into restrictor.

Gently shake the sonde in a circular motion to rinse the inside of restrictor and sensors.

Discard the DI water and repeat rinsing procedure two more times with 10-20 mL of your first calibration standard.



Pour calibration solution into the restrictor 1 cm above the sensors and cover with the end cap. Follow the instructions in VuSitu to start the calibration.

Turbidity Sensor Calibration

You must calibrate the turbidity sensor with In-Situ's turbidity standard, or formazin. The app may not automatically detect the formazin concentration. Instead, a field will appear in which you can enter the appropriate value. Select **Set User Defined** to begin calibrating with the new value. If you are using an In-Situ standard and the app does not automatically detect it, perform the sensor cleaning and maintenance procedure, then select **Retry Auto Detect**.

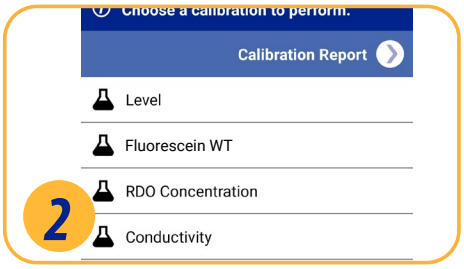
Fluorometer Calibration

Fluorometer sensors (BGA-PC, BGA-PE, Chlorophyll-A, FDOM, Crude Oil, Fluorescein, and Rhodamine) require more calibration solution than other solution-based calibrations. Use a solid-state calibrator for fluorometer calibrations if one is available. If solution-based calibration is required, fill the restrictor up to the threads for accurate calibration.

Using Solid State Calibrators

Do not look directly at the sensor LED or point it at the eyes. Doing so can cause eye damage from UV light emitted by the LED.

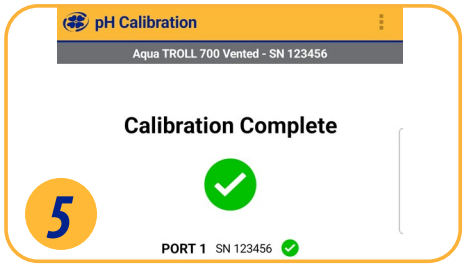
Slide the calibration sleeve onto the restrictor until it is fully seated.



Connect to the VuSitu mobile app. Select **Calibrations**, then choose the calibration you want to perform.

Place the calibrator in the end of the restrictor.

Enter the standard value from the top of the Calibrator.



Follow the on-screen instructions to complete the calibration.

Remove the calibration sleeve and reinstall the end cap before deployment.