



## ***Aqua TROLL 500/600/700/800 Ammonium Sensor***

The In-Situ ammonium sensor measures ammonium levels in natural water, surface water, groundwater, produced water and aquaculture applications.



You must have a **Temperature** or **Conductivity/Temperature** sensor installed to use the Ammonium sensor. To calculate ammonia, the instrument requires a **Conductivity/Temperature** sensor and a **pH** sensor.

## ***Getting Started (4 steps)***

### ***1 Replace the reference filling solution.***



Before calibration and deployment, condition the ammonium sensor and replace the filling solution according to the instructions below. Repeat conditioning procedure between deployments.



Remove sensor from sonde and unscrew reference junction.



Don't dump solution down the drain. Pour it onto a paper towel and discard.



Lightly shake the bottle of reference filling solution to mix.



Insert the fill tube into the bottom of reservoir.



Squeeze a steady stream of solution into the reservoir while slowly pulling out the tube.



Overfill slightly. Reinstall reference junction cap and tighten until it touches sensor body.



Turn the cap 90° more (one quarter of a turn) to secure.

## 2 Condition the sensor.



Soak the sensor for two hours in calibration standard. Use at least 140 mg/L solution, or the solution matching your highest calibration point, whichever is greater.



Soak overnight for the best long-term results. Rinse thoroughly with deionized water prior to calibration.

## 3 Install sensor.



Remove restrictor from the instrument.



Remove sensor port plug if installed. Do not twist.



Lubricate o-ring at bottom of sensor.



Install sensor. Do not twist.

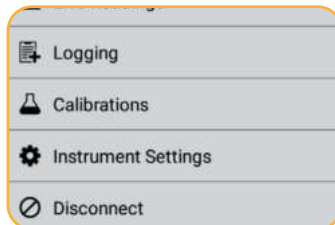


Place restrictor in calibration mode.

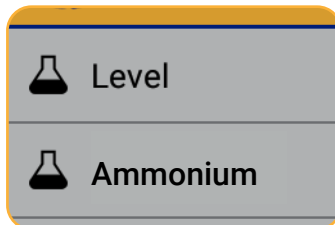
## 4 Calibrate and deploy.



Connect to the instrument with VuSitu.



Select **Calibrations** from the menu.



Choose the **Ammonium** option and follow the instructions.



Flip the restrictor into deployment mode after calibration



For detailed calibration instructions, see the instruction manual or quick start guide for your In-Situ instrument.

## *Cleaning and Storing the Sensor*



Do not store the Ammonium sensor in DI water. It will deplete the reference solution and drastically reduce the life of the sensor.

### **Storage**



Dampen the sponge inside the sensor storage cap with Storage Solution or pH 4 calibration standard.



Replace the caps at both ends of the sensor. Use electrical tape to seal the storage cap.



Salt crystals may form on the sensor during storage. These are normal and will not interfere with sensor performance.