

Installation Instructions – AquaSwift WiFi Water Depth Sensor

There are 3 parts to setting up your AquaSwift WiFi Depth Sensor – Part A, and Part B, and Part C. It doesn't matter what order you do these parts in – whatever is easiest for you. Note, these instructions are for the WiFi sensor. If you have a Cellular sensor, please use the AquaSwift Cellular Sensor instructions. You can tell the difference between a WiFi sensor and a Cellular Sensor in that the Cellular sensor has a cellular antenna (approx. 4 ½" X 1" ribbon – often green) inside the control module and the WiFi sensor doesn't have this antenna.

Part A – Registering to setup your account and associate it with your sensor. Note if you have already registered (previously, or when installing another device) you don't need to register again.

1. Go to www.aquaswift.io/register
2. Follow the prompts given

Part B – Install and Setup your sensor

In this part you will configure your AquaSwift sensor to communicate with your WiFi router. If you've done this type of thing before for other devices, then the 5 step summary below is likely all you'll need. If not, don't worry, just follow the detailed WiFi Configuration procedure below.

Summary of WiFi Configuration Procedure:

1. Put device into WiFi Config mode by moving slider switch from Off to WiFi Cfg
2. On your smart phone in WiFi settings, enter your WiFi connection information (ie password to connect to your WiFi network)
3. Wait about 30 seconds (or until you see 3 long blinks of the blue light)
4. Turn the unit off again for 30 seconds
5. Then turn it on again by moving the switch all the way to the "On" position

Detailed of WiFi Configuration Procedure:

1. Open the AquaSwift device (remove 4 screws that hold the transparent lid on) to access the switch
2. To enter WiFi Config mode - turn unit off for 30 seconds, then move switch to WiFi Cfg position. This will erase current WiFi settings (which is useful if you ever decide to connect your AquaSwift device to a different WiFi router, access point or network).

TIP: When in WiFi Config mode the blue light will flash (about 2 to 3 times a second). You will then have 3 minutes to enter WiFi credentials – see instructions below. If you aren't able to enter the information in this time, no problem, just turn the device off and repeat this procedure. During the 3 minutes when the flashing rate increases (about double) then you will have 1 more minute remaining to enter your WiFi credentials. If the flashing light begins to flash really quickly (about 10 times a second), then only 5 seconds remain. If you haven't entered the wifi credentials before the 3 minutes is over - no problem - just turn the unit off for a few seconds and start again.

Once you do enter the wifi credentials and the unit connects to your router, the light will flash 3 long slow blinks to confirm. At this point turn the unit off for a few seconds. Then turn it on again by sliding the switch all the way to the "On" position. You are now finished configuring the device, and can put the transparent lid back on using the 4 screws.

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3. Once you have put your AquaSwift device into WiFi Config mode (using the switch under the lid as described above), go to your smart phone (or other wireless capable device) and go to the setting screen that allows you to choose which WiFi access point you want to connect to.
4. You will see the AquaSwift device listed as an access point you can connect to. It will have a name that is similar to this AS_18FE34D3818C. The numbers and letters will be different but it will start with AS_ and then have some numbers and letters after it. Choose to connect to that access point.
5. Depending on your smartphone or computer the AquaSwift WiFi setting screen may automatically display. If not open a browser and try to connect to any web site (it doesn't matter which one) - at this point the AquaSwift device will recognize you are talking on the network and will present the AquaSwift WiFi setting screen.
6. On the setting screen either select an available router (aka access point) by clicking on its name (aka SSID). If your network is configured not to display SSID's then you'll need to know your router's SSID, and type it into the field provided.
7. Once you have chosen (or entered) the SSID, enter your password to connect to that router. This is the same password you would enter into any device (computer, smartphone, etc.) when setting it up to connect to your network router.
8. Then choose to save your settings. The AquaSwift Device will now connect to your router. It will indicate it has done so by 3 long slow flashes of its blue light. At this point you are done configuring your AquaSwift device to connect to your router. You just need to turn it off for about 30 seconds, then slide the switch to ON, then re-attach the lid. (be careful not to pinch any wires between lid and body)

Note: At some point you may change your router, its name, or the WiFi password. If you do, you'll need to update your AquaSwift device using the above WiFi Configuration procedure to give it the new information, so that it can continue sending you alerts, and sending information to your dashboard.

Part C – placing sensor in the well

1. Lower the end of the cable with the active sensor on it (the brass pipe) into the water you want to monitor. The unit will measure the depth of water above this sensor.
2. Place the control module so that the solar panel gets some sunlight. Ideally you will have the solar panel facing the direction of the noon sun. However the device doesn't need a lot of sunlight – as long as it gets some direct sunlight during the day. It will run for about 10 days with no sunlight at all, so no need to worry about cloudy days, or occasional snow cover.
3. Arrange the unit such that the hole where the cable enters the control module isn't where water or rain can run directly into it. Having this face of the control module facing slightly down to protect it from rain is preferable. The actual hole thru the module itself is at a slight downward angle to help with this.

Note: If after 10 minutes the device hasn't reported data, turn the unit off, wait 30 seconds, turn it back on. If still no data after 2 minutes since turning device on, contact AquaSwift.

www.aquaswift.io

Note: If you ever need to reconnect the sensor wire to the terminal block turn the power off and connect as follows. Attaching incorrectly could damage sensor.

1. SG terminal – attach white/orange wire (ie white with orange stripe)
2. + terminal – attach orange wire
3. SDA terminal – attach blue wire
4. SCL terminal – attach white/blue (ie white with blue stripe)