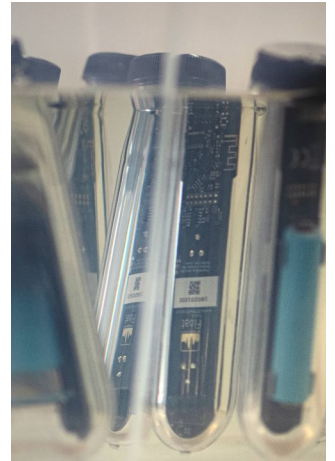# Float calibration adjustment

Every Brewbrain Float leaves the factory completely calibrated. This means every sensor is calibrated against different fluids with different gravities from 1 to 1.150 SG against a known reference.

At the end of the calibration process each individual sensor receives it's own calibration curve.

Brewbrain has made it is possible to finetune the SG readings so that they match your other hydrometer or refractometer. In this process the original calibration curve will be fitted through the adjusted calibration points the user sets.

With the following procedure you will always keep the characteristics of the original calibration adjusted with the user input.

The calibration adjustment can be performed in two ways:

- one point calibration: offset the whole calibration curve with the desired SG

- two point calibration: fit the whole calibration curve on two known SG points

A two point calibration will give the best results and it is up to the user to choose the desired points.

In general we advise to work with clean tap water and a fluid (wort or an water/sugar solution) with an SG a little higher than your frequently used starting SG. Both should be as close to 20°C (68 °F) as possible.

For this example we will work with water (1.000 SG) and wort (1.150 SG), both at a temperature of 20°C (68 °F).
It is acceptable to have a temperature deviation of maximum 1°C (1.8 °F).

Make sure to have a bucket or container available with an possible depth of at least 17 cm (6.7 ").

Follow **Step 1** and **Step 2** on the next page to proceed with the two point calibration.
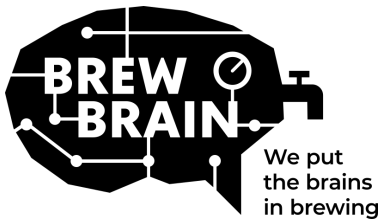
Float calibration adjustment

Step 1

Prepare a bucket with water.

Switch your Float to "setup".

Connect to the Float's WiFi access point with your mobile phone and open the menu, just like when registering the Float.

Twist on the lid and drop the Float in water.
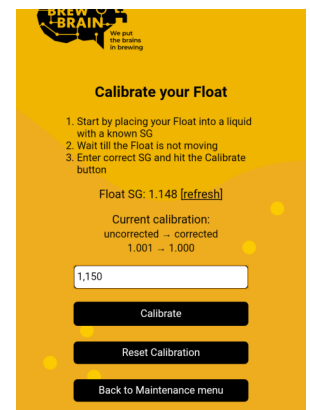
Go to Maintenance menu.
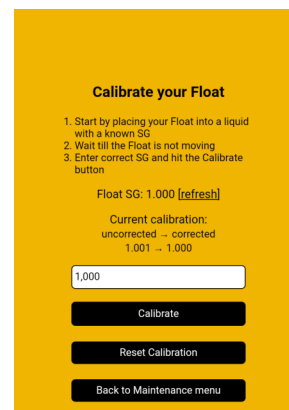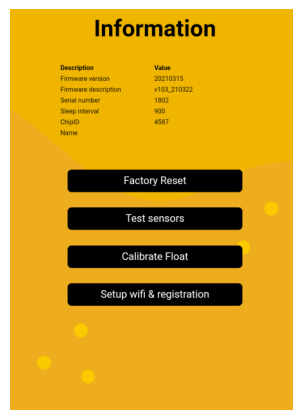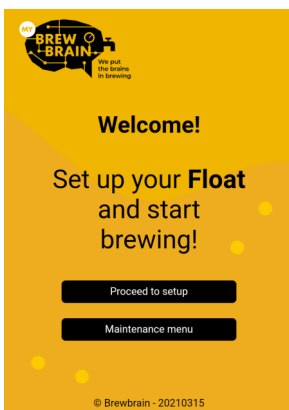
Go to Calibrate Float.

Check if Float is stable.

Press refresh, you should see a reading in the order of 1.000.

Fill in the desired calibration SG, in this case 1.000.

Press Calibrate.

Now you should see the first registered calibration adjustment in your screen.

Step 2

Prepare a bucket with water/sugar solution of your desired SG (1.150 in this example) and measure this with your glass hydrometer or refractometer.

Your Float should still be in "setup" mode and in the calibration menu, otherwise, go to that menu (see step 1)

Transfer the Float to the bucket with the sugar-water

Check if Float is stable.

Press refresh, you should see a reading in the order of 1.150.

Fill in the SG you measured with your other hydrometer, in this case 1.150.

Press Calibrate.

Now you should see the second registered calibration adjustment in your screen.

When you want to change the calibration adjustment, just follow step 1 or step 2 again. The calibration point closest to the new SG will be replaced.

It is always possible to go back to the original factory calibration by pressing the "Reset Calibration" button.

You are done! Now switch your Float to "measure" and watch your brew data while you enjoy a great home brewed beer!