Rain sensor calibration for the CloudWatcher

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Your CloudWatcher may have one of 3 different rain sensor models: A, B¹ or C

While the 3 models are similar, they behave slightly different. There are just 3 parameters in the software that may need adjusting, the dry/wet/rain limits

¹ The B sensor could be yellow, green, blue or white and could include a think white/colorless coating layer.
Default values are:

- Sensors A: 2000, 1700, 400
- Sensors B: this model needs user calibration, see below.
- Sensors C: 2000, 1700, 0

specially note the **value of 0 is valid** for sensors B and C.

If your sensor is model A or C, just use the above values. No further calibration is required.

If, however, you have a “B” model sensor (current), you need to adjust the value.

**Quick and easy (and perfectly valid) calibration**

Just find out the highest (driest) value – any clear, sunny day, will do. Then set the wet limit to be 5% below that (you can even go to 4 or 3%), and the rain limit some 20% below.

**More detailed calibration**

Place your CloudWatcher over a table, connect the software, and make sure the rain sensor is totally dry – do not touch its surface with your bare fingers.

Now note the rain sensor reading.

With a stick, the tip of your pen, or similar, place a small drop of water on the surface of the sensor. Wait a few seconds and take note of the new reading. Should be 100 or so lower than the previous one.

Now place 2 or 3 big drops of water, wait a bit, take note again. Now the value should have dropped quite a lot (several hundreds to thousands).

For the example, let's say the values read are:

4400 for totally dry
4200 for a drop of water
3000 for several drops over the sensor

… with these, we'll have for the 3 settings:

- in between the drier values, for Dry >, so 4300
– in between the wetter values, for Wet >, so 3800
– 0 for the lowest possible value.

To configure the software, just check the images; note that, in Windows, the 0 is entered in the Setup tab, Alarm section.