

Rain Sensor Calibration

Depending on the age of your CloudWatcher it may be fitted with one of three sensors. Calibration varies according to sensor type and is described on the following pages.



Sensor C



Sensor B



Sensor A

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

Quick Calibration

Sensor C



This is the current sensor model.

The default values are:

- Dry – 2000
- Wet – 1700
- Rain – 0

Enter these limits in the CloudWatcher software / Solo.
No further calibration is required.

Sensor B



CloudWatchers with this sensor require calibration.

Begin by taking the highest value observed on a clear sunny day. This is the *dry* value. Set the *wet* limit to 3% to 5% below the dry value. Set the *rain* limit to 20% below the dry limit.

Sensor A



This sensor does not require calibration.

Use the default values:

- Dry – 2000
- Wet – 1700
- Rain – 400

No further calibration is required.

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.

Software Calibration

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



