

Trolmaster WCS-2 Water Content Sensor Calibration

The Trolmaster WCS-2 can be used in a variety of grow mediums. Before it can be used, it is highly recommended to first calibrate the WCS-2 to your grow medium and your nutrient solution. Follow the process below to calibrate each WCS-2 sensor you are using.

- 1) You will need to prepare the grow medium by top-flushing it using a nutrient / water mix. You will need to know the EC of the nutrient / water mix and will be using that EC value as the calibration value for the WCS-2 sensor.
- 2) Fully saturate / flush a sample of your grow medium (in a growing container / pot) with your nutrient solution. DO NOT use fresh water as that will affect the calibration of the sensor. Saturate the grow medium until water is running off from the bottom of the grow medium sample.
- 3) Let the sample sit for 7-10 minutes. Allowing excess water to drain.
- 4) First we can do the 0% VWC calibration. With the sensor DRY and laying down NOT inserted into the grow medium, we will calibrate the 0% VWC reading using open air as the reference. Once the 0% calibration is complete, we will calibrate the 100% VWC. ****Go to the calibration page on the main controller to access the calibration options.***
- 5) Now we will calibrate the 100% VWC. Gently insert the WCS-2 probe into the growing medium approximately 1/3 of the way up from the bottom of the container, (or as close as possible). Once you have inserted the probe into the container, it is highly recommended NOT to move the sensor until the crop cycle is complete.
- 6) Now you will execute the 100% VWC calibration with the WCS-2 sensor inserted into the fully saturated grow medium. ****Go to the calibration page on the main controller to access the calibration options.***
- 7) Once the 100% calibration is complete, we can now calibrate the EC reading on the WCS-2. Navigate to the EC calibration option within calibration, and then you will enter the EC of the nutrient solution that you used to flush the grow medium with. When the calibration is completed that EC reading will then be displayed on the WCS-2 as the current EC reading ****Go to the calibration page on the main controller to access the calibration options.***
- 8) After calibrating the 0%, then the 100%, and then the EC, the WCS-2 is now calibrated to that specific grow medium and that specific container or grow block.

Note: Your WCS-2 is now calibrated to your specific growing medium. We recommend calibrating the sensor when you are first starting the flowering stage of the crop. Do not move or reposition the sensor after installation for best results.