

# WCS-1

## Water Content Sensor

The WCS-1 water content sensor allows the user to monitor the % of water / nutrients within the growing medium. The moisture level / water content is displayed in real-time on the WCS module itself, the Aqua-x and the APP. That data is displayed on a graph (through the APP) and helps the user visualize the dry-down time, and to make adjustments to their irrigation timers / irrigation cycles. Up to 8 WCS-1 can be connected to a single Aqua-x. When multiple WCS-1 are connected to a single Aqua-X, the displayed value on the Aqua-x and APP will be the AVERAGE of all of the sensors.



## Specifications

### WCS-1

#### Input Voltage

Input Voltage 12 VAC

#### Maximum Current

Maximum Current 0.1A

#### Measuring Range

Measuring Range 0~100%

#### Working Environments

Temperature 32-122°F (0-50°C)

Humidity ≤90%

#### Package Dimensions

Size 10.82" / 275mm(L) x 6.46" / 164mm(W) x 2.44" / 62mm(H)

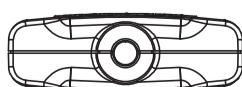
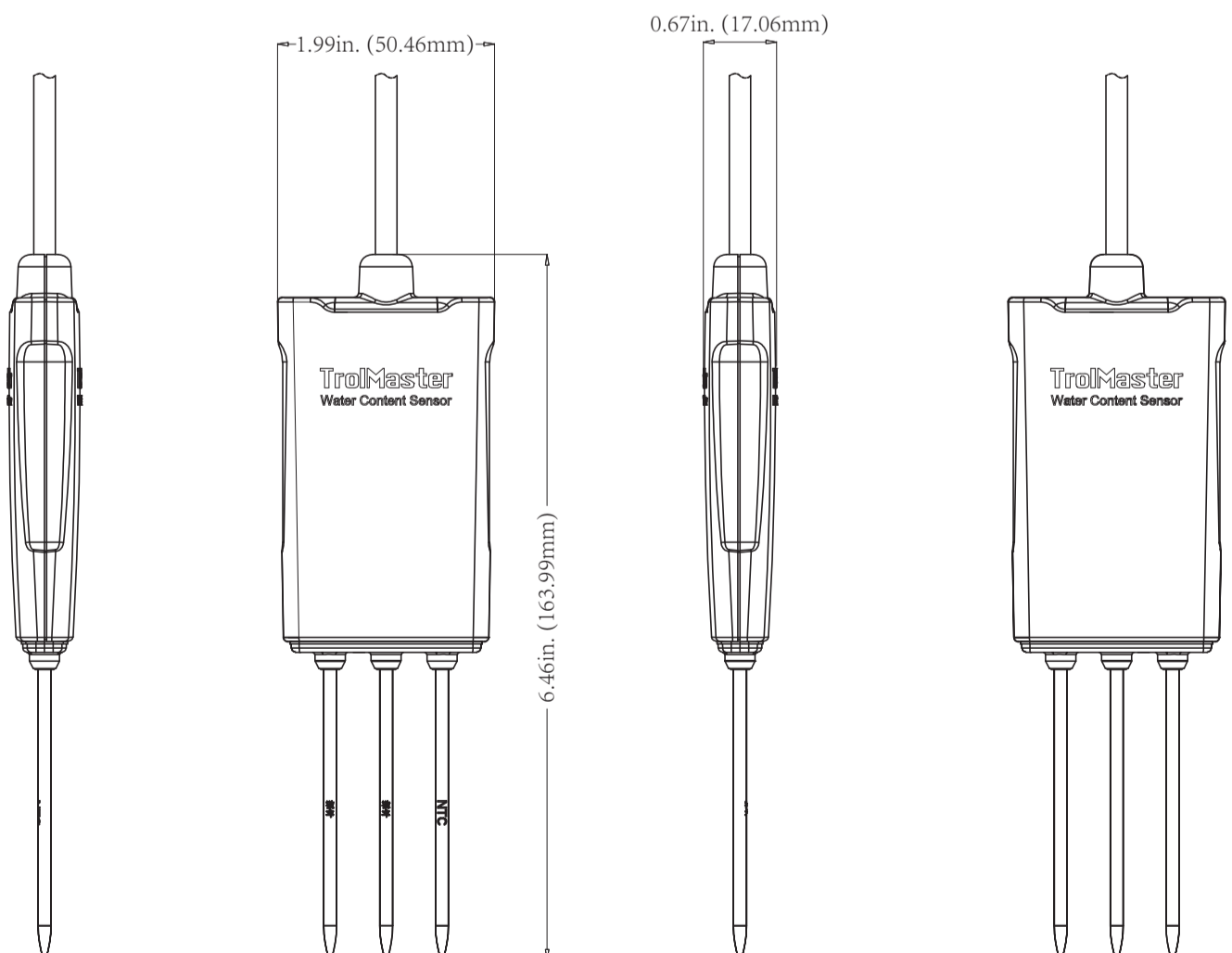
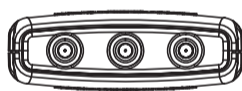
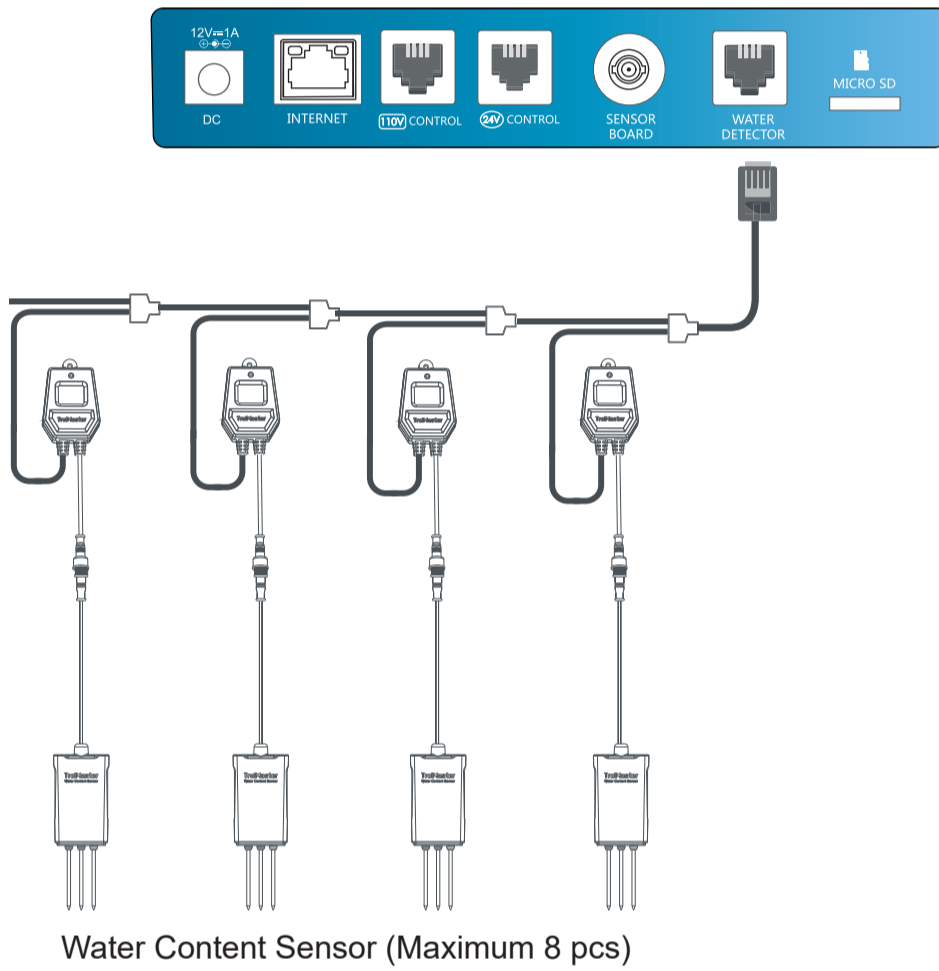
#### Package Contents

Water Content Sensor 1pc  
 RJ12 T-Splitter 1pc  
 16ft RJ12 Cable 1pc

## Link Up

### WCS-1

#### CONNECTION DIAGRAM



## **Trolmaster WCS-1 Water Content Sensor Calibration**

**The Trolmaster WCS-1 can be used in a variety of grow mediums. Before it can be used, it is highly recommended to first calibrate the WCS-1 to your grow medium and your nutrient solution. Follow the process below to calibrate each WCS-1 sensor you are using.**

- 1) Insert the WCS-1 probes into the growing medium approximately 1/3 of the way up from the bottom of the container, (or as close a possible).
- 2) Fully saturate / flush a sample of 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 until water is running off from the sample.
- 3) Let the sample sit for 2-3 minutes.
- 4) Press and hold the black button on the WCS-1 module for 5-seconds. It will display calibrate to 100%. Press the button again... the 100% calibration will complete.
- 5) Once the 100% calibration is complete, remove the WCS-1 probe from the growing medium and then press the black button 5 times quickly to start the 0% calibration. Press the button again... the 0% calibration will complete.

**Your WCS-1 is now calibrated to your specific growing medium. We recommend calibrating anytime you change the growing medium type, or when you are in between crops.**