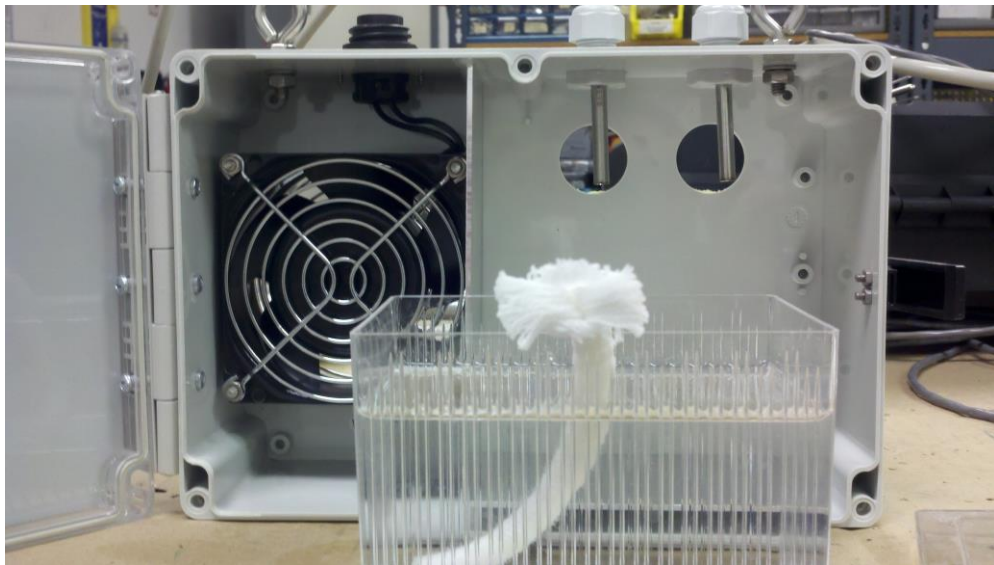


Techmark Inc.
SOP M301-1 RH Measuring Box
How to Install Dry and Wet Bulb Sensors
Dec. 2013

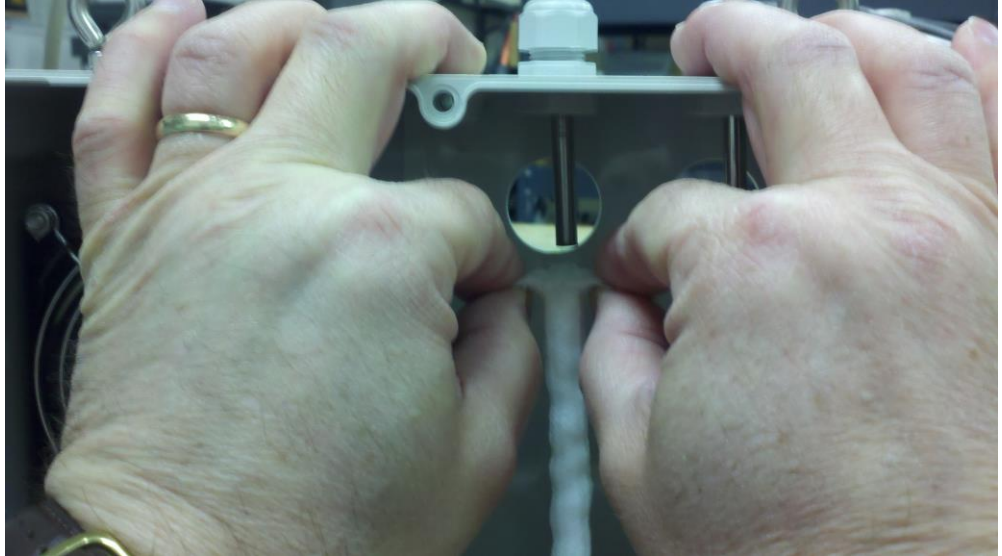
1. Hang RH measuring box
 - a. Locate at 3rd bed to monitor micro climate near mushrooms.
 - b. Ensure box is level.
 - c. Allow for air flow behind the box (Min of 6" of open area)
 - d. Avoid direct air flow from supply air ducting.

2. Wire 24 VAC into quick disconnect harness
 - a. Ensure RED 24 VAC + is on terminal 1.
 - b. Ensure BLACK 24 VAC common is on terminal 3.
 - c. Ensure WHITE CO2 Positive VDC signal is on terminal 2.
 - d. Ensure GREEN CO2 Negative VDC common is on ground terminal --III
 - e. Turn on 24 VAC power.
 - f. Plug in quick disconnect and ensure fan is operating.
 - g. Verify CO2 has power by observing flashing light on lance of analyzer.

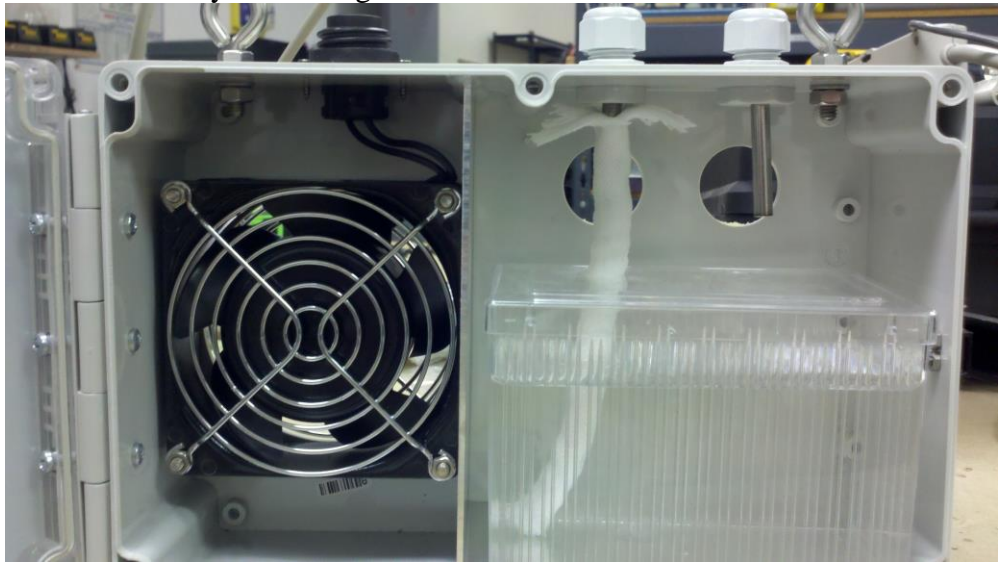
3. Attach wet and dry sensors
 - a. Mark dry bulb sensor with RED vinyl tape above clear heat shrink.
 - b. Mark wet bulb sensor with BLUE vinyl tape above clear heat shrink.
 - c. Insert sensors into the water tight's so that the sensor tip is even with the bottom of the holes in the back of the RH canister. **Wet bulb on left side.**



4. Prepare RH measuring wick
 - a. Keep wick clean at all times. Store in clean zip lock bag.
 - b. Cut RH measuring wick into 7 inch long piece.
 - c. Fill RH water reservoir using only distilled water to approx. 7/8 full.
 - d. Pre-soak wick the new wick for a minute to ensure saturation.
 - e. Remove wick from reservoir and place lid on reservoir with hole located on the left side.
 - f. Separate capillary strands (water transport wires) to the -outside of the braided RH wick.
 - g. Grab with thumbs and index fingers, slide RH wick over sensor to make sure it is a good fit.



- h. The RH assembly should look like picture below when wick is installed and door is ready for closing.



5. Close door.
6. Go to controller and verify Measured RH is reading below 100% to ensure rh wick is on wet bulb sensor.