

# Weather Sensors

## Chapter 9

The MistAway System comes ready for optional weather sensors – rain sensor, wind sensor, rain & wind sensor and finally the rain, wind & freeze sensor

If no weather sensor options are used, a jumper wire will be factory installed across the terminal blocks labeled Blue and White on the Power Control Board. This is the bottom circuit board inside the control panel. Do not remove the jumper wire if a weather sensor is not used.

“**rAln**” is displayed in the Time of Day window when any weather sensor has activated and bypassed a mist cycle. The display will be shown only when operating in the **AUTO MODE**.

First we'll install the Rain Sensor. It is the only wireless sensor.

- 1 Determine where the transmitter will be placed in the yard and secure it tightly in an upright position with attachment fittings provided.

Remember when determining the placement for your Rain Sensor transmitter you want to place it as close to the reservoir as possible, never more than 300 feet away. Make sure it is in an open area free of overhanging obstacles.

Place in an area that is accessible to both rain and direct sunlight

Two examples of Rain Sensor Transmitter placement include a fence and a gutter.

- 2 Unplug the System
- 3 Open the Control Panel
- 4 Open the false front by removing the two screws
- 5 Remove the jumper wire on the bottom, Power Control Board that is connecting #3 (blue) and #4 (white)
- 6 Attach the Rain Sensor receiver in the slot provided, next to the Power Control Board, with two-sided tape.
- 7 Attach the correct colored wires to the Power Control Board marked rain sensor.
- 8 Close the false front and replace the two screws.
- 9 Plug the System back in.

The Rain Sensor Receiver is equipped with a low battery light. The light is located under the Control Panel. When it illuminates, the battery must be replaced in the Rain Sensor's Transmitter. Use two 3V batteries for replacement.

Now we'll install the Wind, Wind & Rain and Wind, Rain & Freeze sensors

- 1 You will need: 18 gauge wire (enough to reach from the weather sensor to the control panel twice)

The sensor will come with a bolt package.

The contents of the bolt package are: 2-#4 Terminal Connectors  
2-#4 Butt Connectors

First, make sure the weather sensor is installed before attaching the chassis to the reservoir lid.

- 2 Unplug the System
- 3 Open Control Panel

- 4 Open the false front by removing the two screws
- 5 Remove the jumper wire on the bottom Power Control Board that is connecting #3 (blue) and #4 (white)
- 6 Determine where the weather sensor will be placed in the yard and measure enough wire to reach from the sensor to the control panel, making sure you have two equal lengths for the sensors.

Be sure to place sensor in an area that is free of over hanging obstacles.  
Place it in an area that is accessible to both rain and direct sunlight.  
Make sure wind sensors are in open areas that are accessible to the wind.

- 7 At the control panel, strip one side of each of the 18 gauge wires and place a Terminal Connector on each of the wires. Following the wiring diagram, attach the wire colors to the correct terminal colors depending on your weather sensor.
- 8 Loosen the Heyco nut that holds the level sensor wire and feed the two opposite ends of the 18 gauge wire completely through. Be sure to re-tighten the Heyco fitting at this time.
- 9 Run wires through the hole in the side of chassis that is provided for the level sensor wire and out to the weather sensor.
- 10 At the weather sensor, strip the other side of each of the 18 gauge wires and place a Butt Connector on each of the wires. Attach this end of the wire to the weather sensor.

Make sure you match the same colors on the weather sensor as you did on the control panel.  
Make sure to either heat shrink or use outdoor rated electrical tape and seal Butt Connectors.

- 1 Close the false front and replace the two screws.
- 2 Plug the System back in

### **Weather Sensor Wiring Diagram**

**Rain Sensor**

- 1-Yellow
- 2-Yellow
- 3-Blue
- 4-White

**Wind Sensor**

- 1-N/A
- 2-N/A
- 3-Red
- 4-Green

**Rain & Wind Sensor**

- 1-N/A
- 2-N/A
- 3-Blue (Normally Closed)
- 4-Green

**Rain, Wind & Freeze Sensor**

- 1-N/A
- 2-N/A
- 3-Clear
- 4-Green