Humidity & Fan Control Sensor

ORTECH

MODEL WM-DWHS

WARNING

WARNING — THE INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.

1. Turn OFF power at circuit breaker of fuse before wiring
2. Humidity & Fan Control Sensor can only be installed by a qualified technician
3. For safety, the Humidity & Fan Control Sensor MUST be installed in a grounded switch box
4. Use only copper wire and DO NOT use aluminum wire with this Humidity & Fan Control Sensor

Application Notice

1. If the humidity value is below the set point, white Fan LED indicates, and the fan will be automatically off
2. Humidity & Fan Control Sensor is ready to be turned while the red Fan LED indicate the indoor humidity level above its set point

CAUTION

PLEASE READ INSTRUCTION BEFORE COMMENCING INSTALLATION AND RETAIN FOR FUTURE REFERENCES.
Electrical products can cause death or injury, or damage to property.
If in any doubt about the installation or use of this product, consult a competent technician.

OPERATION & INSTALLATION GUIDE

When the humidity level reaches its set point, the fan will automatically turn on (the factory default mode). Original state: fan closed, all the time to stop, start detecting humidity condition.

Manual ON, Manual OFF

- When the manual button is used to turn ON, the fan will turn ON for 30 minutes and will turn off then back to the original state

- When the manual button is used to turn OFF, the fan will turn OFF immediately and humidity sensor stops working, and will be back to the original state until manual turn on the sensor

Auto ON, Auto OFF

The fan will turn ON 30 minutes automatically when humidity level is higher than set point and will automatically turn OFF when the humidity level drops below the set point.

After 30 minutes, the fan will turn OFF, but if the humidity level is higher than preset then the fan will continue to run after 5 minutes break (MUST be maintained unchanged for 3 minutes after the fan automatically turn on or off, to avoid turning on or off frequently in the humidity critical point).

INSTALLATION GUIDE

1. Make sure that the power has been turned OFF at the circuit breaker

2. Connect lead wires as WIRING DIAGRAM (see Fig.1 on the right): BLACK lead to Line, RED lead to (Fan) Load, WHITE lead to Neutral and GREEN lead to Ground

3. Check connections to be sure that they are tight and no bare conductors are exposed

4. Insert the WM-DWHS into the wall box carefully

5. Make sure the WM-DWHS to the box using the supplied screws

6. Attach the wall plate

7. Restore power at circuit breaker, then installation is complete

Fan Button Function

The sensor has one function as noted below: (Default Settings *)
The Fan LED turns rred when the humidity level above is set point, otherwise the LED will always stay white

Function — Humidity Set Point for Fan
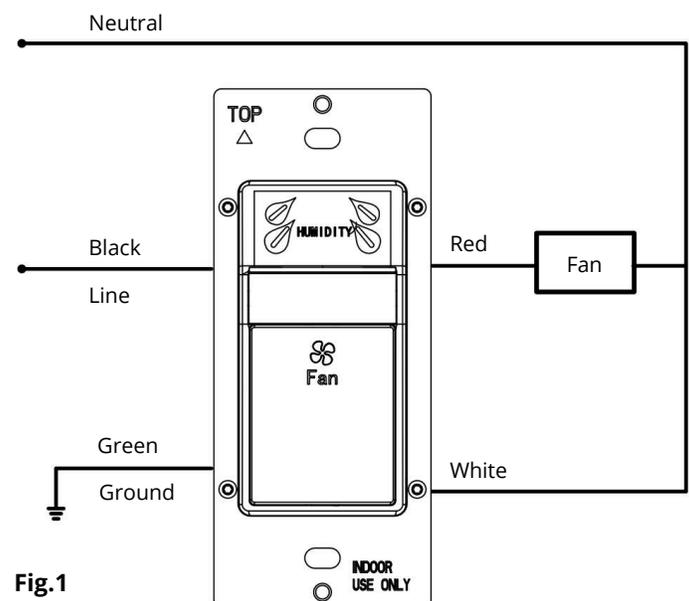
1. Low Humidity
2. Medium Humidity *
3. High Humidity

Fig.1

info@ortechindustries.com
www.ortechindustries.com

13376 Comber Way
Surrey BC V3W 5V9

375 Admiral Blvd
Mississauga, ON L5T 2N1

1-888-543-6473
1-888-541-6474

INSTALLATION GUIDE

Function Setting

1. <u>START program mode</u>
   Press and hold the fan button for 5 seconds. Its red and white LED will stay on. The sensor is now in Program Setting Mode. The LED flash time will show the current function, flashing 1/2/3 times show the corresponding function 1/2/3. Flashing once means function 1 "Low Humidity".

2. <u>CHANGE program function</u>
   Press the button 1/2/3 times to enter a function to change. The fan LED flashes with each press, then press and hold the button for 5 seconds, the LED flashes 3 times, the new setting is saved and then sensor will exit the setting mode.

3. During the Program Setting Mode, after pressing and holding button for 5 seconds, when the LED looping 10 times and no further action or the setting is saved, the LED flashes 3 times and then the sensor will exit the setting mode (when exit the setting mode, the load will be turned off at the same time).

Fan LED

<u>Fan: BI-Colour (red or white LED)</u>

Bi-colour light is just for display humidity use only. When the environment humidity is higher than the set point, red LED will be on. When the humidity is lower than the set point, white LED will be on. When power on, the red/white LED will flash once.

Troubleshooting

The buttons do not react:

Check if the panel is installed properly

Press the fan button, if the relay does not work and the indicator light does not flash:

Turn OFF power to the circuit then check wire connections

If the relay operates normally but the load will not turn on:

Check the load

The fan keeps working under humidity setting point:

When it can be turned off by a manual button, check if the sensor is broken or not