

### Application

The J10-809W and J10-810 are used to cycle an air conditioning system to help prevent mildew build-up associated with high humidity levels.

The J10-809W and J10-810 are designed to be wall-mounted and can be wired in parallel or in series with any 24V thermostat.

### Parallel Installation

Advantages: Desired humidity is maintained regardless of ambient temperature.

Disadvantages: The air conditioning system could cycle on during low ambient temperatures.



**NOTE: DO NOT USE parallel wiring if low temperature compressor protection is not present.**

### Series Installation

Advantages: Air conditioning system will not cycle on during low ambient temperature periods.

Disadvantages: Humidity levels may be higher than desired during low temperature periods.

### Installation Instructions

1. Turn electrical power off.
2. Determine dehumidistat location. This control should be mounted on an inside wall where normal air circulation is present. For most residential applications, locate the control adjacent to the existing wall thermostat for easy installation and wiring.
3. Remove cover from back plate and punch wiring knockout on back plate.
4. Place back plate on flat mounting surface, mark two mounting hole locations, and wire knockout hole.
5. Drill  $\frac{3}{16}$ " diameter holes for drywall anchors (if needed) and insert dry wall anchors.
6. Drill  $\frac{1}{2}$ " diameter hole for low voltage wires, pull wiring through access hole and through back plate.
7. Mount back plate securely to wall with screws provided in parts package. **NOTE: Make sure the back plate is flat without any undue stress.**
8. Connect wires to Terminals 1 and 2. Wires should not be taut after connection. **NOTE: All wiring should conform to NEC recommendations and any local codes.**
9. Re-install front cover.
10. Turn electrical power back on.

### Operational Test

#### Parallel Installation

Turn dehumidistat down until air conditioner turns on. Cycle at least three times to assure proper system function. Return control knob pointer to desired humidity setting.

### Series Installation

Turn the thermostat to the highest temperature setting. Turn the dehumidistat from lowest to highest setting. The air conditioning system should not start up. (If it does, wiring is incorrect.) Next, turn the dehumidistat to the highest setting. Turn the thermostat from high to lowest temperature setting. Again, the system should not start up. Now, set the thermostat on the lowest temperature setting and the dehumidistat to the lowest setting. The system should now operate.

**NOTE: The use of a sling psychrometer is recommended to determine relative humidity level.**

