

**Ambient Temperature Sensor & Heat Pad Quick Guide:** The Ambient Temperature Sensor limits the current given to the heat pad, allowing the heat pad to only be turned on when below 35°F.

How it Works:

The Ambient Temperature Sensor acts as a switch for the heat pads. Once the Ambient Temperature Sensor reaches 35°F, the switch is enabled, allowing current to flow to the heat pads. Once the temperature of the Temperature Sensor reaches 45°F, the switch is disabled, stopping current from flowing through the pads.

Things to Know:

- The Ambient Temperature Sensor should be placed in between the adhesive side of the Heat Pad and the item wished to be heated (ie. between the heat pad and the battery).
- The Heat Pad comes with a weather proof connector attached. In order to connect the Heat Pad to the Temperature Sensor, these connectors must be removed.
- The Ambient Temperature Sensor has wire connectors.
- One effective method is to crimp on ring terminals to both the Temperature Sensor's wires and to the Heat Pad's wires to allow for simple connection.

Connection Explanation:

The black wire from the Ambient Temperature Sensor is connected to the negative terminal of the battery. The white wire of the Ambient Temperature Sensor is connected to the black wires of the heat pad. The red wire for the Temperature Sensor connects to both the positive terminal of the battery and the white wires coming from the Heat Pad. If more than one Heat Pad is desired, the white wires of each heat pad should be connected to one another. Similarly, the black wires for each Heat Pad should be connected to one another. The Temperature Switch can supply enough current to support up to 10 of the 15W Heating Pads.

A connection diagram for the Temperature Sensor and a single Heat Pad is shown below:

