

FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

DESCRIPTION

The F67-8535 Integrated Thermostat Sensor can be used as the temperature sensor for Integrated Thermostat Functionality on the White-Rodgers All-Spark 50D50U-843 24V spark ignition module. The sensor should be plugged directly into the AirT connector on All-Spark, shown in the diagram below. It is important to note that **Integrated Thermostat Functionality is only designed for radiant, infrared and tube heat applications. Refer to diagram below to properly wire all safety switches in the system.**

INCLUDED IN THE BOX

- 1 – F67-8535 Integrated Thermostat Sensor
- 1 – Installation Instructions

ELECTRICAL SPECIFICATIONS

OPERATING TEMPERATURE RANGE

-40° to 176°F (-40° to 80°C)

LEAD WIRE LENGTH

48 inches

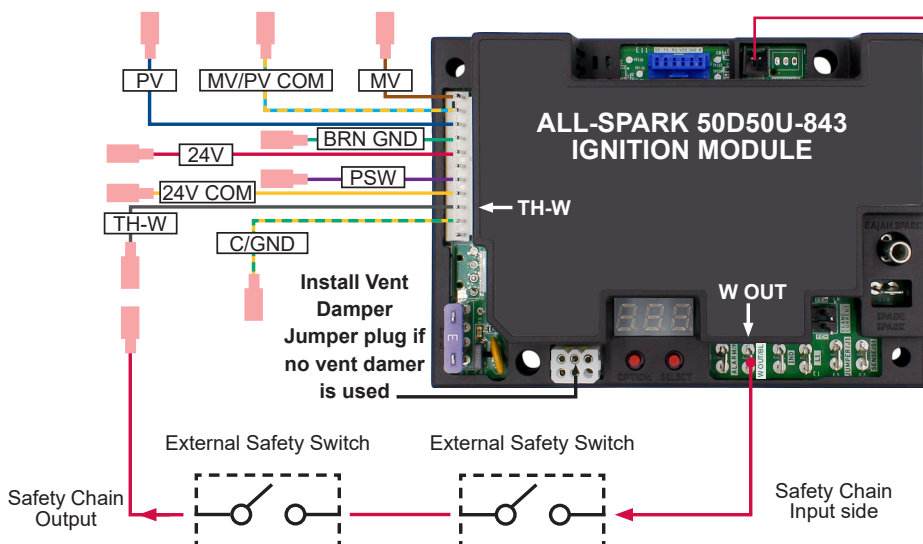
TOLERANCE

+/- 5% at 77 °F (25 °C)

INSTALLATION

For radiant, infrared and tube heater applications only

1. Disconnect electric power to the unit.
2. Plug the F67-8535 Sensor into AirT connector on All-Spark, shown in the diagram below.
3. Connect the W OUT terminal to the input side of the safety circuit.
4. Connect the output side of the safety circuit to the 11-pin harness lead on All-Spark 50D50U-843 labeled TH-W.
5. Configure Integrated Thermostat through White-Rodgers Connect App or 7-segment LED Display (see 50D50U-843 instructions for more).
6. Power up system and test to verify proper heating operation.



F67-8535 Integrated
Thermostat Sensor

IMPORTANT: Connect W Out on 50D50U-843 module to input of safety switches (limit, rollout, etc.) and connect output of safety switches to TH-W on 50D50U-843



Failure to comply with the following warnings could result in personal injury or property damage

- Installation should be done by a qualified heating and air conditioning contractor or licensed electrician.
- All wiring must conform to local and national electrical codes and ordinances.
- Following installation or replacement, follow manufacturer's recommended installation/service instructions to ensure proper operation.

FIRE HAZARD

- Do not exceed the specified voltage.
- Protect control from direct contact with water (dripping, spraying, rain, etc.).
- If the control has been in direct contact with water, replace the control.
- Label all wires before disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Route and secure wiring away from flame.

SHOCK HAZARD

- Disconnect electric power before servicing.
- Ensure proper earth grounding of appliance.
- Ensure proper connection of line neutral and line hot wires.
- Ensure control has 1/4" clearance between all sides of control and grounded metal.

EXPLOSION HAZARD

- Shut off main gas to appliance until installation is complete.

