

Duct High Limit Switch

How to Install & Adjust your Firestat in an HVAC System

Operating within air ducts across the globe, Firestat duct controls play an important role in HVAC systems, ensuring safety by halting equipment if air temperatures exceed pre-set limits. These switches are key in specialized HVAC setups and Building Automation Systems (BAS).

Duct Limit Control Installation Procedure:

- Determine Installation Locations:** Identify critical temperature spots in the ductwork, such as downstream from electric heaters or areas near flammable materials.
- Voltage Compatibility:** Firestat's can function in both low voltage and line voltage circuits. Ensure correct wiring to interrupt both heat source and blower circuits when the duct air temperature surpasses the set limit. When multiple Firestats control a single heat source, connect them in series.
- Step-by-Step Installation:** Temperature Adjustment: Set the temperature dial to the desired limit.

Placement: Install the Firestat downstream of air flow in the air duct system.

Wiring: Connect the Firestat to the fan following the provided wiring diagram.

Determining Temperature Settings:

After installation, determining the optimal temperature setting is crucial for effective operation. Follow these steps:

- Temperature Assessment:** Measure the air temperature next to your furnace while it's running.
- Adjustment Calculation:** Add approximately 40°F to the measured temperature to accommodate fluctuations. This sum becomes your recommended Firestat setting.

Temperature Adjustment Procedure:

- Cover Removal:** Gently detach the cover by pressing on the sides of the switch, exposing the internal components.
- Dial Adjustment:** Loosen the screw to adjust the selector to the desired temperature within the range of 100°F to 250°F. After selecting the temperature, securely tighten the screw to set the dial.
- Cover Replacement & Installation:** Place the cover back onto the switch, ensuring proper alignment. Reinstall the Firestat into the duct system.

Upon leaving the factory, Firestat switches are preset to 125°F but offer an adjustable range from 100°F to 250°F.

By following these guidelines, you can ensure efficient installation and operation of your Firestat duct controls, enhancing safety and functionality within your HVAC system.



Product Specifications

- Fixed or Adjustable Temperature Range of 100°F to 250°F
- Bi-Metal Element Probe Lengths of 5", 7.5" or 11"
- Enclosure Operates in Ambient Temperatures from -40°F to 190°F, Sensing Element Can Withstand Temperatures up to 350°F
- Custom Options and Private Labelling Available