

SSR Controller

For Off-Peak Energy and Power Regulation



The Steffes SSR (Solid State Relay Panel) is an optional control device used with the Steffes ThermElect (9100 Series) and Comfort Plus Commercial (6100 and 7100 Series) Heating Systems. It utilizes SSR technology to enable more precise balancing of a building's overall electric load by varying the amount of total element input that can be energized in a Steffes furnace at any given time in relation to the maximum allowable building load. The Steffes SSR optimizes a building's power quality and control.

The SSR controller can only accept input signals from the Steffes furnace but it can respond to all types of control inputs to include 4 – 20 Milliamp, 1 – 5 Volt DC, electric meter pulsing, BACNet or any building energy management system. With the 4 – 20mA or 1 – 5 volt DC signals, the SSR will provide an output directly proportional to the input signal. 4mA signal produces 0% output while 20mA signal produces 100% output. With the utility pulse meter input, the SSR output percentage will automatically adjust to maintain a total maximum system load as dictated by the furnace's set-up. With a BACNet, the furnace can be commanded to varying input levels remotely.

SPECIFICATIONS AND FEATURES

- Metal enclosure: 19 1/8" wide x 17 5/8" x 8 1/16"
- 277V/480V, 347V/600V, and 240V/416V compatible
 - Maximum input fuse size = 125 amps
 - Total maximum connected load ampacity per phase = 100 amps
- Baked on, specially formulated, high-grade urethane paint finish complements furnace color, offers durability and provides corrosion resistance
- Compact, robust design with high efficiency heat sink requiring no mechanical cooling fan and still maintaining low internal operating temperatures (up to 70oF cooler than similar devices)
- Can be mounted directly on the Steffes furnace or can be installed within 6' of the furnace
- Advanced circuitry for protection against line spikes and surges
- Safety limits for thermal protection against overheating
- Six (6) 75 amp solid state relays
- Duty cycles properly balanced between phases so not all phases are switched at the same time
- Easy calibration and set-up
- Line fuse protected
- Clearances:
 - 4" = Top and Sides
 - 0" = Back and Bottom
 - 36" = Front

Order Item #1301016



Limited Two-Year Manufacturer's Warranty