

S2S - Two-Stage Set Point Control



Overview

The S2S is a Two-Stage Set Point Control which can stage two heat sources to maintain a fixed set point. The S2S has multiple uses including:

Staging two Triangle Tube Boilers to maintain a fixed set point for either heating or domestic hot water applications.

Staging between multiple sources of heat such as Solar or Geothermal Systems with a Triangle Tube Boiler as backup.

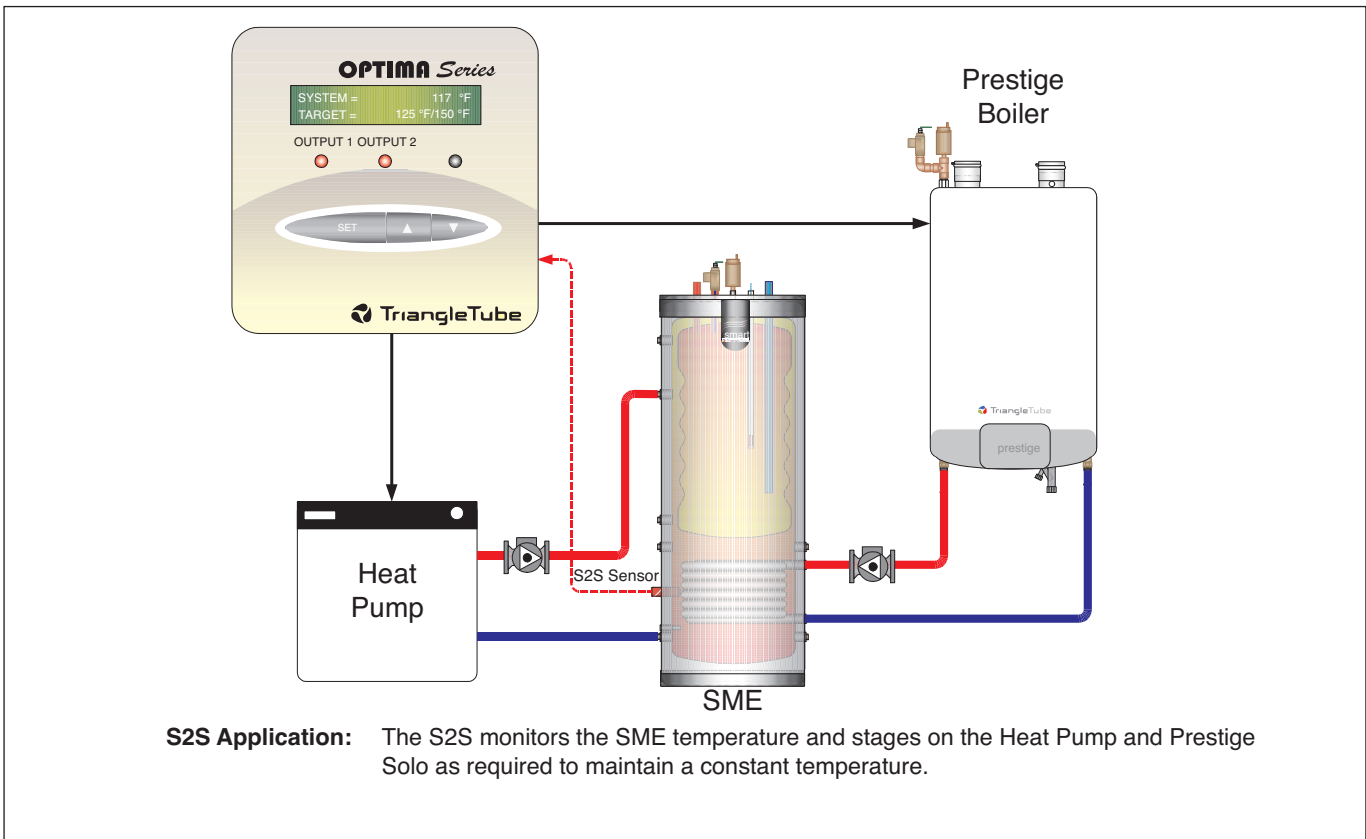
Features

- **Two Set Points**
Each stage has an independent set point to make setup easy and provide the most adjustability.
 - **Adjustable Differential**
The set point differential is adjustable to match the controllers operation with the system being controlled.
 - **Fixed Lead Stage or Automatic Rotation**
The S2S can be configured to always start with the first stage or automatically rotate the lead stage every 24 hours to equalize runtimes.
 - **Independent or Consecutive Operation**
Two modes of operation are available to provide the most flexibility for maintaining your set point. Independent operation first enables the lead stage, and then enables both stages together if the temperature continues to fall. Consecutive operation first enables the lead stage, and then disables the lead stage and enables the second stage if the temperature continues to fall.
 - **Heating, Cooling, & Changeover Options**
The S2S can be used to maintain a heating or cooling set point as well as act as a heating/cooling change over control.
 - **External Enable**
The S2S can be remotely enabled from an external device or controller.
 - **Sensor Fault Operation**
The S2S provides the option of switching on or off all stages if a sensor fault should occur.
 - **Digital Display**
Large 2 x 16 character display provides status information as well as easy parameter adjustments in plain English.
 - **English or Metric Units**
The S2S can be configured to operate using either English or Metric units.
 - **Mounting Options**
The S2S can be mounted on a standard 4" x 4" electrical box or can be panel mounted using the included plastic wiring enclosure.
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	Item Description
PSCON13	S2S Two-Stage Set Point Control (Includes System Temperature Sensor)

S2S Specifications

Voltage Input:	120VAC 60 Hz (2 Black wires) / 24 VAC 60 Hz (24VAC Terminals) (Only One Power Source)
Power Consumption:	.3 VA Max
Operating Temperature:	.20°F (-7°C) to 120°F (49°C)
Operating Humidity:	.20% to 80%
Dimensions:	.4"W x 4"H x 2 1/2"
Weight:	.1 pound
Outputs:	.2 S.P.S.T (White = Output1.), (Blue=Output2.)
Output Relay Ratings:	.1 Amp Inductive duty, 6 Amp resistive at 120 VAV 60 Hz
Control Modes:	.Heat (Break on Rise), Cool (Make on Rise), Change-Over (Heat/Cool)
Operating Modes:	.Independent, Concecutive (a max of a Single Stage can be on at one time)
Rotation Options:	.ON (Every 24 Hours), OFF
Sensor Fault Operating Options:	.Output ON or Output OFF
Temperature Ranges:	-.30°F (-34°C) to 250°F (121°C)
Pressure Ranges:	.PSI (0-30PSI, 0-100PSI, 0-200PSI, 0-300PSI) or (0.25MPa, 0.60MPa, 1MPa, 1.6MPa) MPa
Vacuum Ranges:	.30Hg or 760mm
Humidity Ranges	.0% to 100% RH
Display:	.Back Lite Alphanumeric (2 rows x 16 char. each)
LEDs:	.2 representing the Output Relays (Left=Output1, Middle=Output2)
Buttons:	.3 (Set, Up, Down)



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