

SSM - Snow Melt Control



Overview

The SSM is an affordable alternative to expensive snow melt controls which utilize a slab sensor. The SSM precisely controls the temperature of the water circulating through the slab by monitoring the slab supply and return temperatures. This information allows the SSM to first slowly bring the slab up to temperature and then to maintain the slab temperature to prevent the accumulation of snow or ice.

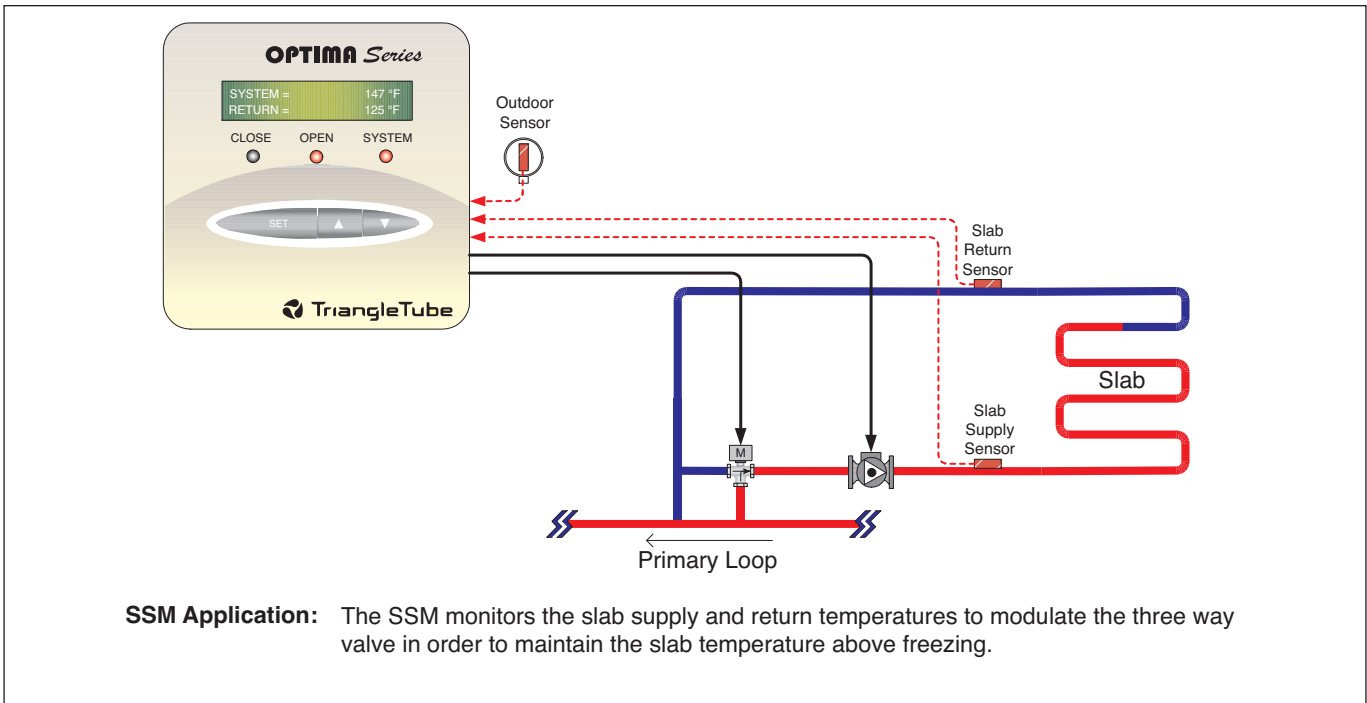
Features

- **No Slab Sensor Required**
The SSM utilizes PID logic to maintain the slab temperature above freezing, so a slab sensor is not needed. This makes the SSM ideal for retrofit applications.
 - **Automatic Operation**
The SSM can be automatically activated whenever the outdoor temperature falls below an adjustable outdoor cutoff temperature. This will allow the control to slowly bring the slab up to temperature before any snow or ice can accumulate.
 - **Manual Operation**
The SSM can be manually enabled and disabled via an external switch. This allows the user to disable the system when snow is not anticipated.
 - **Motorized Valve Control**
The SSM modulates a standard three way valve with a floating actuator to maintain the desired slab temperature.
 - **Outdoor Reset**
The SSM uses the outdoor temperature to adjust the water temperature being supplied to the slab. This allows the SSM to lower the supplied water temperature as it gets warmer outside and improve overall system efficiency.
 - **Pump Operation**
The SSM can control the pump supplying the slab and can also provide an optional Run-On time to disburse heat into the slab at the completion of a cycle.
 - **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 SSM can be configured to operate using either English or Metric units.
 - **Mounting Options**
The SSM 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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Part #	Item Description
PSCON12	SSM Snow Melt Control (Includes Slab Supply, Slab Return and Outdoor Temperature Sensors)

SSM 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
Display	.Back Lite Alphanumeric (2 rows x 16 char. each)
Outputs:	.3 S.P.S.T (Yellow = System Pump), (White = Open MOV), (Blue = Close MOV (Red = MOV Common)
Output Relay Ratings:	.1 Amp inductive (Maximum of 1/8 HP), 6 Amp resistive at 120 VAC 60 Hz
Curve	-.10 to +10
Slab ΔT:	.5°F (3°C) to 50°F (28°C)
Maximum Temperature:	.70°F (21°C) to 180°F (82°C)
Outdoor Cutoff:	.20°F (-7°C) to 50°F (10°C), ON, OFF
Pump Run-On:	.0 to 60 minutes
Valve Modes:	.Auto, Close, Open
Gain:	-.10 to +10
LEDs:	.3 representing the Output Relays (Left=Close, Middle = Open, Right = System Relay)
Inputs:	.3 Temperature Sensors (Slab Supply, Slab Return, and Outdoor) and Enable/Disable Input
Buttons:	.3 (Set, Up, Down)



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