

SSR MOUNT TEMPERATURE CONTROLLER SSRTC

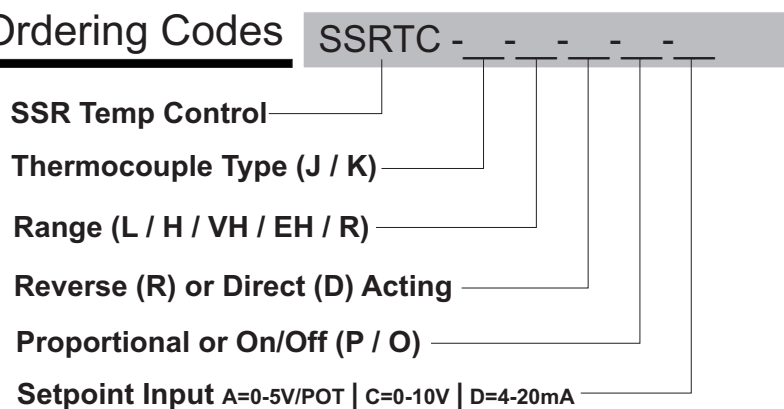


- **SSR mounted microprocessor temperature controller**
- **Small module mounts on the input terminals of an SSR**
- **J or K type thermocouple input**
- **Pot, 0-5V, 0-10V or 4-20mA setpoint input**
- **Output enable/disable control input**
- **Output and status LEDs**

Product Description

The microprocessor based SSRTC mounts directly on the input terminals of a SSR and provides a low cost temperature control solution. The input accepts J or K type thermocouples and can be ordered for heat or cool processes with on/off or proportional control. The setpoint can be controlled by a potentiometer or analog voltage/current. The setpoint is proportional to the voltage or current at the setpoint input.

Ordering Codes



Input Specifications

Power Supply	10-28VDC
Input	J or K thermocouple (see range selections on page 2)
Setpoint Control Input	0-5V, 0-10V, 4-20mA (input impedance is 20K for V, 250Ohms for mA)
Enable / Disable Input	10K internal pull-up for external switch, <0.5V=OFF, >4.5V=ON
Setpoint Accuracy	+/-1.5% of Setpoint (not including normal proportional droop error)

Output Specifications

Control Output	SSR Drive, DC Pulse, nominally 10V @ 15mA
Response Time	500mS
Output Cycle Time (Proportional)	500mS
Setpoint Potentiometer Excitation	5V, +/-3%, 5mA Max, 5K-10K potentiometer is suggested

Thermal Specifications

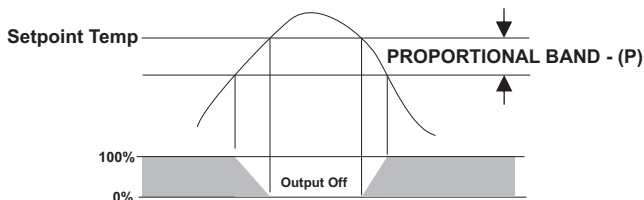
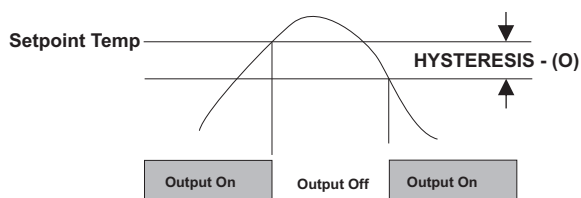
Operating Temperature Range	0 to 60 degC
Storage Temperature Range	-40 to 100 degC

Temperature Range Selections

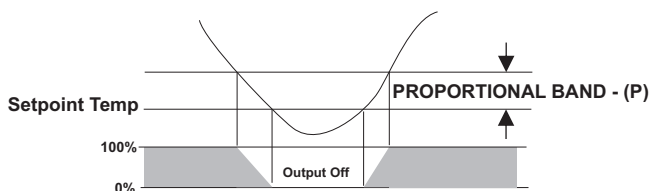
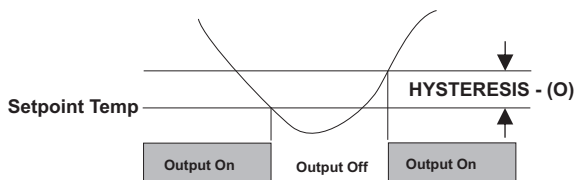
	Range Low (F)	Range High(F)	Range Low (C)	Range High (C)
L	100	500	38	260
H	300	700	149	371
VH	500	900	260	482
EH	700	1100	371	593
R	32	100	0	38

Temperature Control Operation

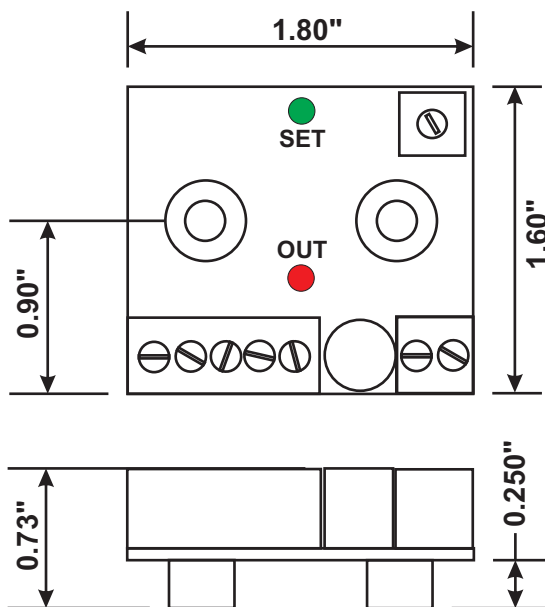
Reverse Acting (Heating) Examples:



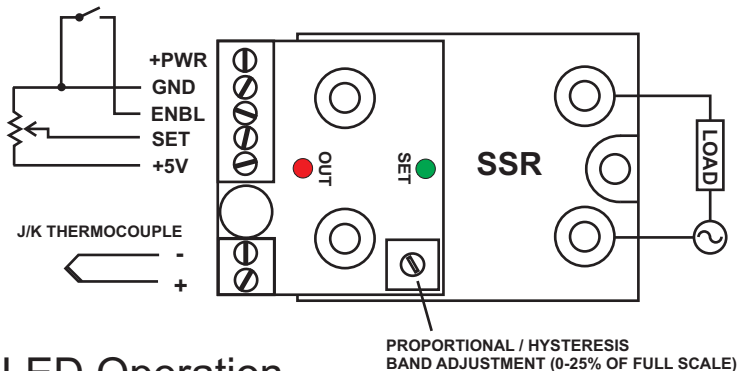
Direct Acting (Cooling) Examples:



Dimensions



Wiring Example



LED Operation

Description	GREEN LED (SET)	RED LED (OUT)
Power Applied	Flash Once	Flash Once
Approaching Setpoint	Off	On when output is on
At Setpoint +/-5%	On	On when output is on
Over Setpoint >5%	Flashing Slow	Off
Open Thermocouple	Flashing Fast	Off