

Serial-Stat™



SST-1 / MST-1 Communicating Thermostats

SINGLE and MULTIPLE STAGE MODELS

SST-1 1 Heat / 1 Cool

MST-1 2 Heat / 2 Cool

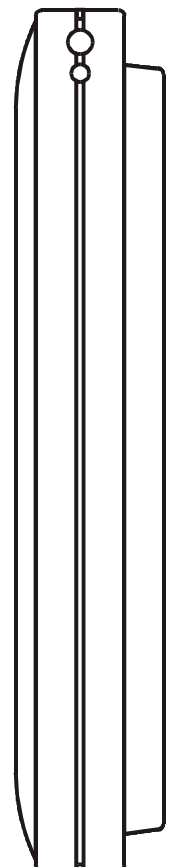
GENERAL DESCRIPTION

The SST-1 and MST-1 communicating thermostats are designed for new or replacement commercial or residential conventional applications. The Serial-Stats represent the latest in solid-state surface mount electronics and manufacturing techniques incorporated into an extremely low-profile, ultra-slim white ABS plastic case. Both units offer "user-friendly" control of the heating/cooling equipment along with an easy-to-read vertical LCD that displays complete operating status. An included 2-wire communications port allows complete remote control and status with a hardware adapter. A direct-wire, easy-to-install subbase mounts directly on a standard vertical outlet box or any drywall surface using hardware provided.



Standard Features

- Selectable Celsius or Fahrenheit temperature display
- Fan selector for continuous fan operation
- Built-in anticipation and droop
- Built-in short cycle protection
- Electronic circuitry replaces conventional mechanical anticipator
- Internal switch to lockout the keypad to prevent unauthorized tampering
- Day/Night (Occupied/Unoccupied) button allows setpoint setback for energy savings
- No battery required (maintains last setpoint/mode of operation following power outages)
- Lockable access cover
- Front panel lockout with 1 hour temporary override; +/- 3oF adjustment during override
- Plenum fan switch
- MST-1 has 2 LED lights available for status indication with switchable LCD icons
- Automatic changeover from heat-to-cool and cool-to-heat
- 2°F (1°C) minimum Heat/Cool separation
- Complete control and status via XC-SSA2 Serial-Stat communications adapter family
- Selectable minimum on/off time (2 or 4 minutes)
- HVAC equipment control using dry contact relays
- Optional remote indoor, outdoor and wet location sensing modules



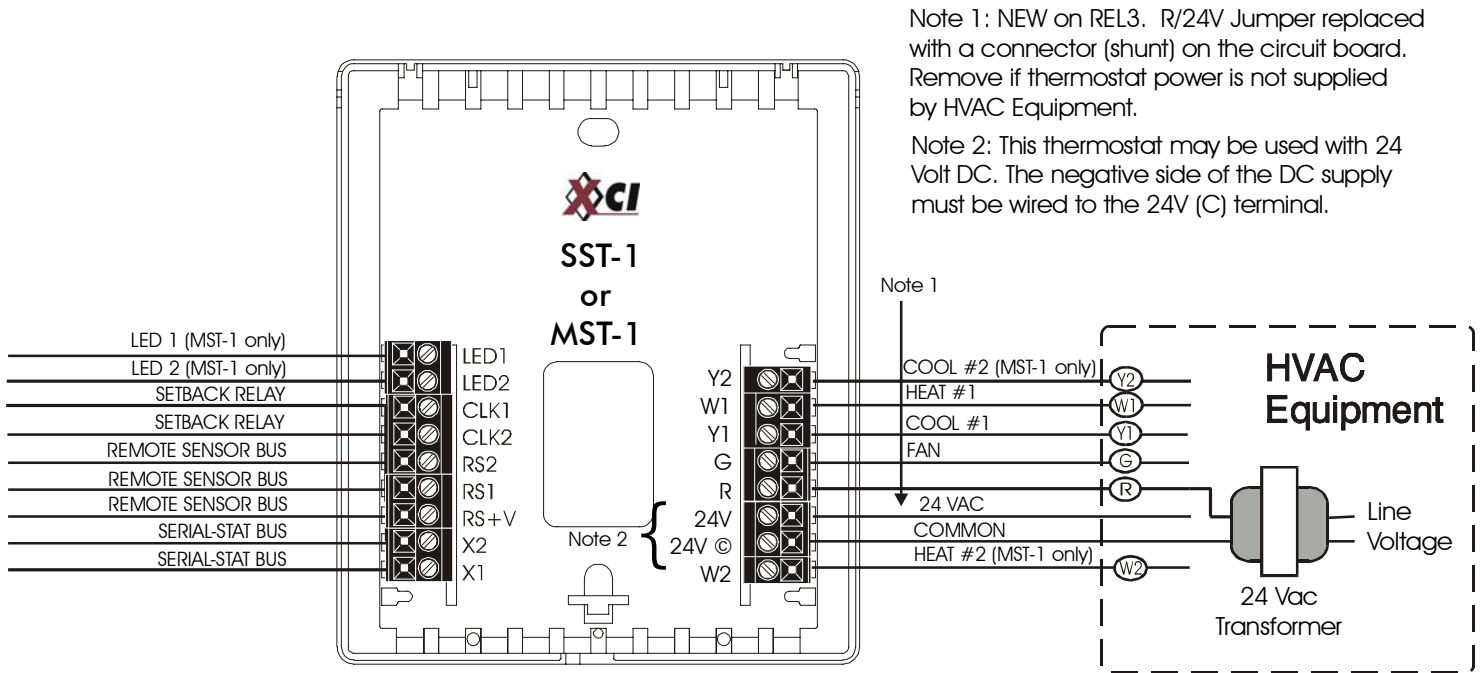
**ACTUAL
SIZE**

Note : Specifications subject to change without notice.

SPECIFICATIONS

Rated Voltage :	20 to 30Vac, DC 24 nominal
Rated A.C. Current :	0.05 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
Rated D.C. Current :	0.0 to 0.75 Amp continuous per output, with surges to 3 Amps maximum
Control Range :	Heating : 38 to 88°F in 1° steps (6 to 30°C in 1° steps) Cooling : 60 to 108°F in 1° steps (16 to 40°C in 1° steps)
Thermostat	
Measurement Range :	28 to 124°F or 0 to 48°C
Control Accuracy :	+/- 1°F @ 68°F (0.5°C @ 20°C)
Minimum Deadband :	(between heating and cooling) 2°F or 1°C
Dimensions :	4.5" H x 4" W x 7/8" D (114mm x 102mm x 22mm)
Equipment Terminations :	R-switching voltage, W1-heat stage 1, Y1-cool stage 1, G-fan MST-1 only - Y2-cool stage 2, W2-heat stage 2
Power Terminations :	24V - power, 24V(c) - power common
Communication Terminations :	X1 - comm(+), X2 - comm(-)
Sensor Terminations :	RS+V - sensor power, RS1 - comm(+), RS2 - comm(-)
Setback Terminations :	CLK1, CLK2 dry contact closure

NOTE: This thermostat contains electronic circuitry that replaces the conventional mechanical anticipator



OUTPUT TERMINAL FUNCTIONS

LED1	Free light for status or function indication	Y2	Energizes on a call for second stage cool, MST-1 only
LED2	Free light for status or function indication	W1	Energizes on a call for first stage heat
CLK1	Dry contact closure input for setback	Y1	Energizes on a call for first stage cool
CLK2	Dry contact closure input for setback	G	Energizes the fan circuit
RS2	Remote indoor, outdoor and/or wet	R	Independent Switching Voltage
RS1	location sensor	24V	24Vac
RS+V	Power for remote sensors	24V(c)	24Vac Common
X2	Communications bus input/output	W2	Energizes on a call for second stage heat, MST-1 only
X1	Communications bus input/output		