

The SC-Z20-T thermostat is designed to work with the SC-Z20 modulating zone control panel and the Zone One, stand-alon zone damper or VAV diffuser. Depending on the application, the SC-Z20-T can be configured to modulate the damper actuator or provide two-position control. The SC-Z20-T should be installed in a zone being served by the damper or diffuser and in a location that represent the ambient space temperature. It should not be installed in an area where drafts are present, near the floor, behind doors or on an external wall.

The SC-Z20-T contains a set of dip switches numbered 1 through 8. Only dip switches 1, 2, 3, 6 and 7 are active. Switch 1 is used to lock the thermostat after setup is complete. When the thermostat is locked, only setpoint changes and status functions can be accessed by the user. Switch 2 is used to display the space temperature, duct temperature and setpoint in Celsius or Fahrenheit. Switch 3 is used to select two-position or fully-modulating damper control. Switch 6 is used to control the display of Heat and Cool. Switch 7 is used to control the display of the space temperature.

#### HOW IT WORKS:

The SC-Z20-T is a single setpoint, auto-changover thermostat. The thermostat wires to a factory mounted actuator board on a zone damper or VAV diffuser that uses a 3-wire, floating point actuator. A duct sensor is wired to the actuator board. The thermostat uses the sensor to determine whether the temperature in the duct is compatible with the thermostat call. For example; if the thermostat calls for cooling and the duct temperature is below 72° F, the damper will be allowed to drive open; otherwise, the damper will maintain its minimum position. The same applies for a heating call. The temperature in the duct must be above 72° F or the thermostat will keep the damper at its minimum position.



#### Specifications:

Input voltage:	24 VAC 50/60 Hz +/- 15%
Relay rating:	24 VAC @ 1A maximum per relay
Operating temperature:	32°to 122° F
Operating RH:	0-95% (non-condensing)
Display size:	2-3/4" W x 1-7/8" H
Accuracy:	+/- 1° @ 77° F
Temperature sensor:	10K NTC Type II
Control range:	36° F to 96° F
Backlight:	Blue Electro Luminescent
Backlight life:	3,000 hours to half brightness
Approvals:	FCC Part 15 C-tick
Dimensions:	4.0" H x 4.375" W x 0.875 D