

## SC-Z20

The SC-Z20 is a commercial zone control system that allows a single HVAC unit to have up to 20 individual zones. Each zone is controlled by its own space thermostat and modulating zone damper. When a majority of zones are calling for cooling, the system operates in the cooling mode. When a majority of zones are calling for heating, the system operates in the heating mode. The SC-Z20 controls up to two stages of heating and cooling. When the number of heating and cooling requests are equal, the system satisfies the cooling request first.

Zone dampers are available in round and rectangular, as well as VAV diffusers. All three types are controlled by a modulating thermostat. Each zone thermostat wires to its own damper. The zone damper is driven by a floating point actuator. The thermostat controls the zone damper to maintain room temperature in both cooling and heating modes. When the zone temperature falls below the setpoint, the thermostat sends a signal to the SC-Z20 control panel requesting a call for heating. When the zone temperature rises above the setpoint, the thermostat sends a signal to the SC-Z20 control panel requesting a call for cooling. These signals are used to determine the mode of operation of the HVAC equipment based on a Majority Wins control algorithm. The zone damper heating output can also be used to control auxiliary baseboard, duct, or ceiling radiation heat. An electronic bypass damper is used to maintain the proper system static pressure as zone dampers open and close.

#### Features:

1. Fully modulating zone dampers and diffusers
2. Up to 20 zones
3. Auto changeover
4. Works with single-stage, multi-stage or heat pump systems
5. No programming required
6. Auxiliary heat control option for each zone
7. Night setback option
8. All low voltage wiring
9. LED status indication of equipment and zones
10. Fused inputs and outputs

