

# SubZone – Stand-Alone Modulating Damper Control

## SUBMITTAL



## SubZone

**Stand-Alone or Floating zone Modulating Damper  
with Programmable Wireless Thermostat**

Part# SubZone

## DESCRIPTION

SubZone is designed for over – conditioned areas and prevents over – heating and over – cooling of individual, floating or stand alone zones in commercial applications. The system is a wireless stand alone, microprocessor based, auto changeover control, equipped with fully modulating damper and duct sensor.

The SubZone is a 7 day programmable battery powered auto changeover thermostat that communicates via an RF wireless signal to a damper control module located on a fully modulating round or rectangular damper.

The Auto changeover operation allows the SubZone thermostat to change from a cooling to a heating thermostat automatically. A duct sensor is included and installed upstream of the damper to determine the temperature in the duct. If the SubZone thermostat is calling for cooling and cool air is available in the duct the damper will modulate open. A heating call will close the damper. If the sensor determines warm air is available in the duct and the thermostat is calling for heat the damper will modulate open. The SubZone system senses the duct temperature and compares it to the set point vs. room temperature providing warm or cool air as required. If the thermostat is not calling for heating or cooling the damper will modulate to the ventilation mode providing continuous circulation to the space.

The SubZone Wireless Controller is equipped with a Auxiliary contact to control a field supplied supplemental heating source, such as baseboard, hydronic, radiant, duct heater or VAV box. The second stage is activated from the thermostat when the room temperature falls 2° below the heat set point.

## TECHNICAL DATA

### **Electrical:**

**Supply Voltage:** Two AA Batteries

### **Inputs:**

- Thermistor - Ambient
- Thermistor – Duct sensor

### **Environmental:**

**Operating temperature:** 30 to 140° F (-1 to 60° C)

**Operating humidity:** 5-95% non-condensing

**Storage temperature:** 0 to 150° F (-18 to 66° C)

### **General:**

**Dimensions:** 3 1/2" H x 4 1/2" W x 3/4" D

**Range:** 45 - 95° F.

**Accuracy:** +/- 0.8° F.

**Memory:** Non-volatile EEPROM

**Display:** 128 x 64 Graphic LCD

### **Communication:**

Proprietary wireless network protocol, with up to 100' transmission range.

### **Note:**

An air proving switch (field supplied) must be used for reheat applications. A field supplied relay may be required for VAV box applications.

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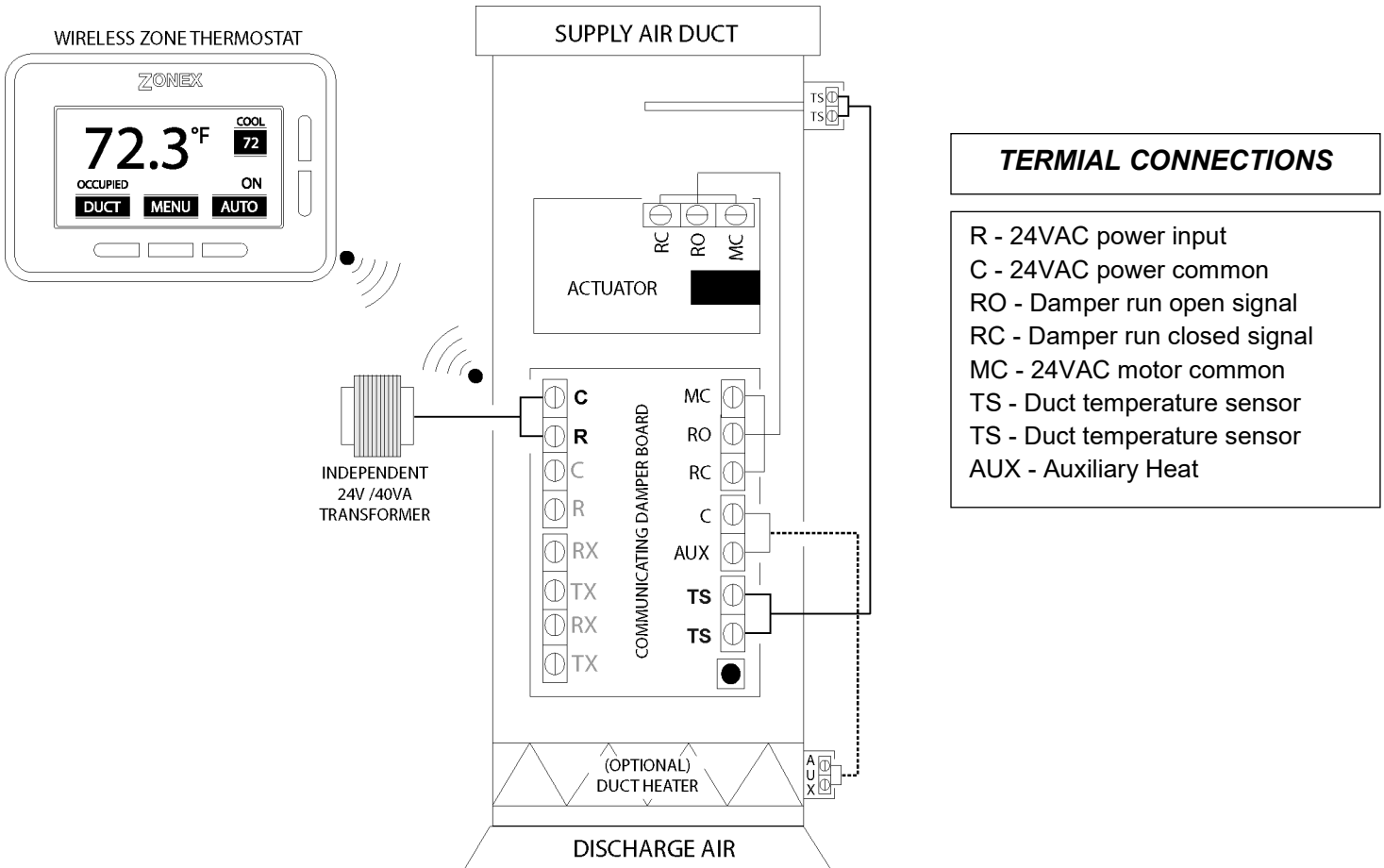
# SubZone – Stand-Alone Modulating Damper Control

## ORDERING INFORMATION

Part No.	Description
SubZone	Stand Alone Wireless programmable thermostat with duct sensor

**Note:** The SubZone Wireless Thermostat is used with Zonex Systems Modulating dampers; WST round, WCD rectangular dampers or WD-Fuser.

## TERMINAL FUNCTIONS



- Auto Changeover 7-day Programmable
- Control Fully Modulating Dampers
- Display Duct Temp at the Stat
- Adjustable Aux or Reheat Operation
- F or C Temperature Operation
- Single Set Point for Easy End User Operation
- Control round, rectangular dampers or D-Fuser
- Wireless Access
- Set point lock
- Auto / off switch
- Non volatile memory retains stored Set points, time, date, and schedules
- Slave capability – up to 3 dampers per stat
- Minimum or Maximum position adjustment