

SUBMITTAL



SAMOD

Stand-Alone or Floating zone Modulating Damper Control
Part# SAMOD includes Duct Sensor

DESCRIPTION

The Zonex Systems **Stand Alone Modulating** thermostat, **SAMOD**, is microprocessor based, auto changeover, with a touch screen interface. The SAMOD works with modulating dampers to control over heated/cooled areas (with erratic temperatures) by controlling the existing air supply to the problem area or zone. The SAMOD is used in stand alone damper applications where independent sub control is required. The SAMOD does not control or cycle the HVAC equipment.

The space temperature is continuously displayed on the SAMOD. A duct sensor is included with the SAMOD to monitor supply air temperature and is installed upstream of its damper. The damper will modulate to maintain room set points based on supply air temperature, room temperature, and variance from set point. Supply air temperature is compared to the room temperature to determine the supply air damper position. If the supply air temperature is 3° F or less than room temperature, the SAMOD recognizes that cooling air is available for the zone. If the supply air temperature is 7° F or warmer than the room temperature, the SAMOD has warm air available for heating the zone.

If no heating or cooling calls exist and duct temperature is within 10° dead band, (3° below room temperature or 7° above room temperature) the SAMOD will modulate its damper position to provide ventilation.

The zone's relative humidity or current duct temperature information can be displayed at the top of the SAMOD's screen. In the event of power loss, set points are stored in a non-volatile memory, eliminating the need for battery backup.

The SAMOD can be field configured for baseboard and reheat* operations, including Fan Powered Boxes. With an adjustable 2-4° dead band for auxiliary heat operations.

***NOTE:** An air proving switch must be used for this application; field supplied.

TECHNICAL DATA

Electrical

Input voltage: 24VAC

Power consumption: 5VA maximum

Output:

- RO/RC Triacs – 24VAC @ .3 amp max
- AUX Heat Relay – 15VA @ 24 VAC max

Temperature/Humidity Sensors

Display Range: 55° to 95° F

Humidity Sensor: (0-100% RH) +/-2% RH

Environmental

Operating Temperature: 35° to 130° F (2° to 54° C)

Operating Humidity: 5 to 95% non-condensing

Storage Temperature: 0° to 150° (-18° to 66° C)

General

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

Accuracy: +/- 0.8° F

Memory: Non-volatile EEPROM

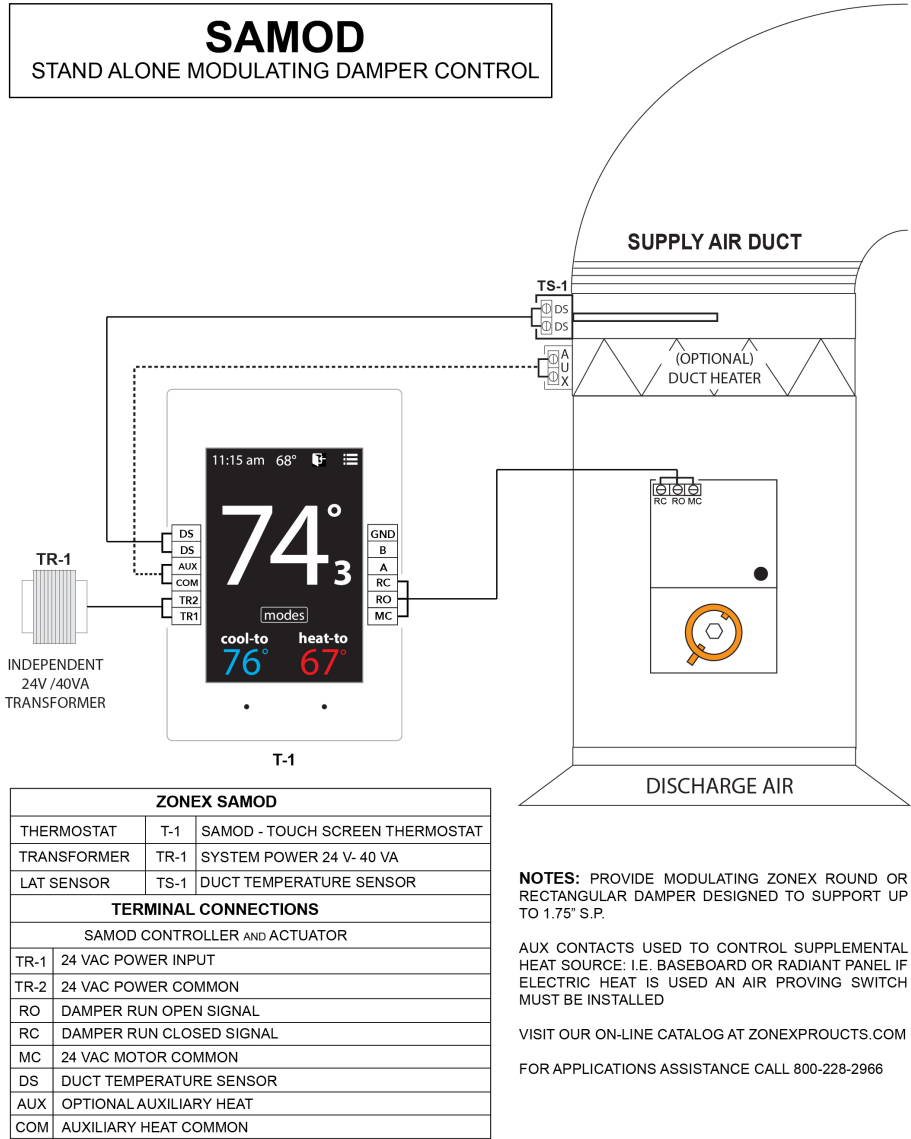
Display: 320x480 3.5 TFT

Viewing Angle: 140°

12/23/20

SAMOD

TERMINAL FUNCTIONS



FEATURES

- Full Color Touch Screen Display
- High Tech look and operation
- Auto Changeover
- Adjustable Aux or Reheat operation
- Control round or rectangular dampers
- Diagnostic tool for thermostat operation
- Control fully modulating dampers
- Display Duct Temperature or Relative Humidity
- Set point lock
- Two level menu access control
- Control screen brightness
- Auto / Off / Cool only / Heat only
- Non-volatile memory retains stored set points
- Slave capability – up to 3 dampers per stat
- Temperature Calibration
- F or C Temperature operation
- Optional remote sensor

ORDERING INFORMATION

Part No.	Description
SAMOD	Stand alone modulating damper thermostat with duct sensor