

SANOD Stand-Alone or Floating Zone Modulating Damper Control

SAMOD OVERVIEW

The system is designed for over-conditioned areas and prevents over-heating and over-cooling of individual or stand alone zones. The SAMOD is an auto changeover thermostat that communicates to a fully modulating round or rectangular damper.

Auto changeover operation allows the SAMOD 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 SAMOD 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 SAMOD 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 40% for ventilation.

The SAMOD allows you to effectively control problem areas by controlling the existing air supply to the problem room or zone. This versatile problem solver is also designed to control supplemental or auxiliary heating devices.



Zonex auto changeover thermostat is designed to control and modulate a stand alone diffuser or damper. Zonex offers 600 unique sizes of round and rectangular dampers for your commercial applications.

SAMOD FEATURES

- Touch Screen Operation
- 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
- Set point lock
- Auto / Off switch
- Remote Sensor Capability
- Slave capability up to 3 dampers per stat
- Relative Humidity Reporting
- Non-volatile Memory



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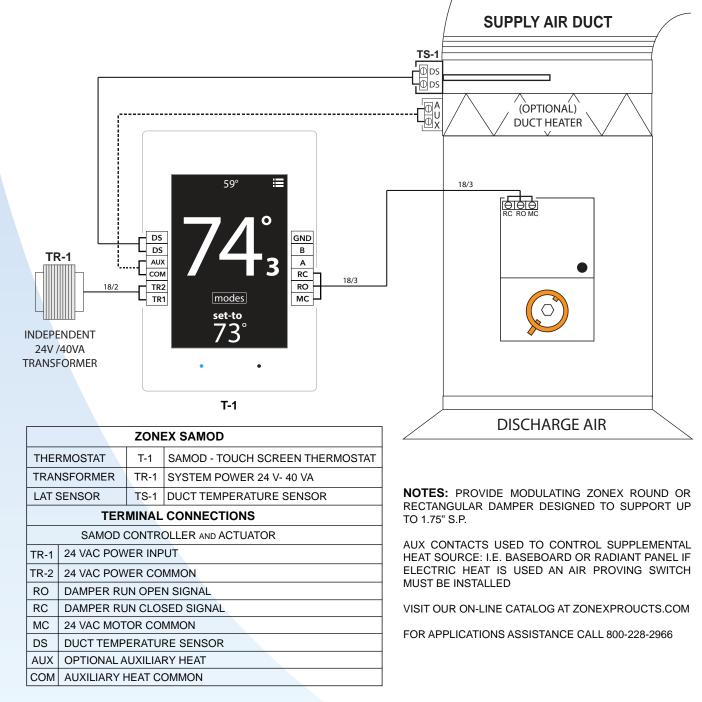
SAMOD solves the problem of over-heated and over-cooled rooms for your customers

WIRING INSTALLATION INSTRUCTION

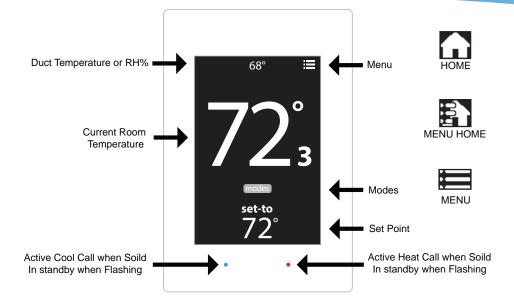
INSTALLATION

- 1. Install the SAMOD thermostat in the zone on an interior wall away from direct sunlight, supply air currents, or any heat generating source.
- 2. Install ST series Round, Rectangular damper into the supply air duct.
- 3. Wire supply damper to SAMOD controller sub-base using three conductor 18 gauge thermostat wire.
- 4. Install a 24 volt, 40 VA transformer in accordance with local code requirements. From the transformer run 18/2 wire and connect to SAMOD thermostat terminals TR1 and TR2.
- 5. Install Leaving Air Temperature Sensor (TS) in the ductwork prior to the supply damper and run sensor wires to the SAMOD. If wires need to be extended, 18 gauge thermostat wire may be used, not to exceed 100 ft. in length.
- 6. Duct Air Temperature (TS) sensor wires are connected to the DS terminals of the SAMOD thermostat.

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



OPERATING INSTRUCTION



The SAMOD is an Auto Changeover thermostat that modulates a zone damper based on supply air and room temperature. System logic dictates system mode of operation. When duct temperature is 3 degrees or more below room displayed temperature on the SAMOD thermostat, the mode is set as Cool. When duct temperature is 7 degrees or greater than room temperature as displayed on SAMOD thermostat, then mode is set for Heat. If duct temperature is neither 3 degrees below nor 7 degrees above room temperature displayed on SAMOD thermostat, then mode is set for Heat.

OPERATION

Tap on the screen, to set your required set point:

UP ^ - Increases set point
DOWN > - Decreases set point

DUCT TEMPERATURE

Tap and scroll to SELECT TEMP SOURCE using the Up/Down arrows, tap to select. Select DUCT, HUMIDITY or NO DISPLAY, tap To save.

SELECT DAMPER TYPE

Tap and scroll to SELECT DAMPER TYPE using the Up/Down arrows, tap to select. Select ROUND or RECTANGULAR damper, tap rot save.

SELECT LIGHTS

Tap and scroll to SELECT LIGHTS using the Up/Down arrows, tap to select. Select desired brightness. tap it to save.

LOCKING SAMOD CONTROLLER

The SAMOD controller can be locked hiding MENU functions and preventing set point from being changed greater than 2° above or below selected set point. To lock SAMOD controller, Tap and scroll to LOCK STAT using the Up/Down arrows, tap LOCK to select. tap To save.

SELECT MENU TYPE

This will allow the advanced menu option to be hidden.

CALIBRATION

Tap and scroll to CALIBRATE DISPLAY using the Up/Down arrows, tap to select. Use the Up/Down arrows to set the desired room temperature, tap to save.

SETUP AUXILIARY HEAT/REHEAT

Tap and scroll to SELECT AUX HEAT using the Up/Down arrows, tap to select. Two options are offered, BASEBOARD or REHEAT.

If BASEBOARD is desired tap to select desired temperature dead band by scrolling through 2, 3 or 4 degrees, when selection is confirmed, tap to save. If REHEAT is desired tap to select, when selection is confirmed, tap to save.

TEMPERATURE FORMAT

Tap and scroll to TEMPERATURE F/C using the Up/Down arrows, tap to select. Tap Fahrenheit or Celsius to select desired temperature format, tap rot save.

SET DISPLAY ACCURACY

Tap and scroll to SET DISPLAY ACCURACY using the Up/Down arrows, tap to select. Select 1/10° or 1° display temperature, tap to save.

SELECT DIAGNOSTIC

The Diagnostic screen will allow you to confirm damper, aux relay, and LED operation. Tap and scroll to SELECT DIAG-NOSTIC using the Up/Down arrows, tap to select. Tap on damper, aux relay and LED to confirm operation, tap to exit.

SUPPLEMENTAL HEAT APPLICATIONS

