

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 a microprocessor based, auto changeover touch screen thermostat, that includes a duct sensor and a fully modulating damper to control problem 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 ambient temperature is continuously displayed on the SAMOD. An accurate duct sensor is included with the SAMOD and installed upstream of the damper. For Auto changeover operation the duct temperature is compared to the room ambient for changeover. If the supply air temperature is 3° F or less than room ambient, the SAMOD recognizes that cooling air is available for the zone. If the supply air temperature is 7° F or warmer than the room ambient, the SAMOD has warm air available for heating the zone. The damper will modulate to maintain room temperature based on variance from set point.

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

The SAMOD's duct temperature is displayed at the top of thermostat providing current duct temperature information and set points. In the event of power loss, the set points are stored in a non-volatile memory, without 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 (field supplied) must be used for reheat applications. A field supplied relay may be required for VAV box applications.

TECHNICAL DATA

Electrical:

Supply voltage: 24vac

Power consumption: 4va maximum

Input:

- 24vac

Outputs:

- RO RC Triacs - 24vac @ .3 amp max
- AUX Heat Relay - 24vac @ 10 amp maximum

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 3/4" D

Temperature Display Range: 55° to 95° F

Accuracy: +/- 0.8° F

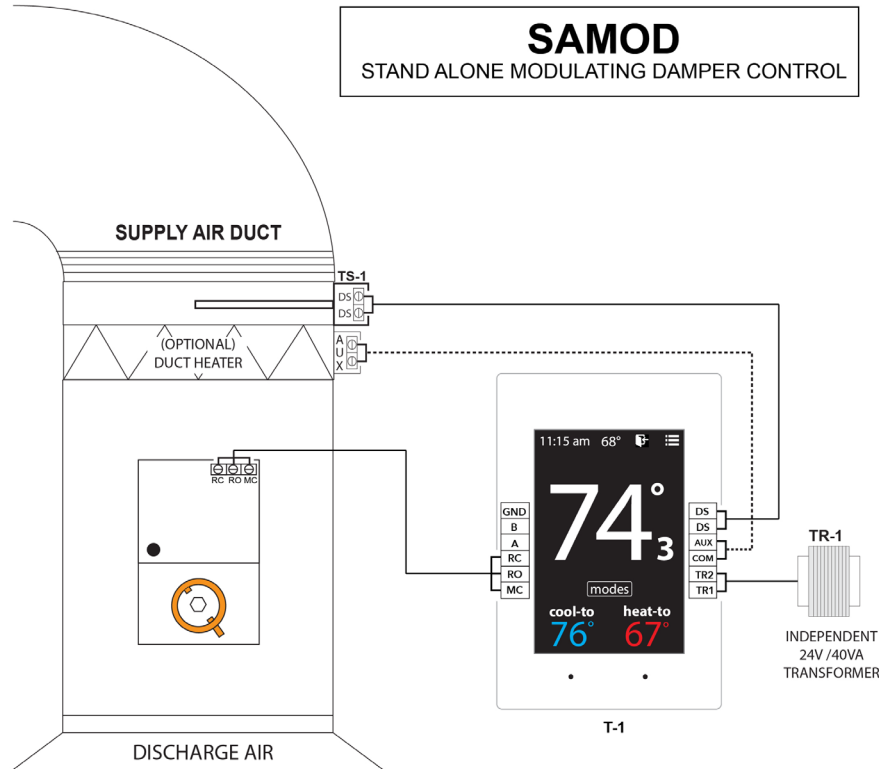
Memory: Non-volatile EEPROM

Display: 320x480 3.5 TFT

Viewing Angle: 140°

SAMOD

TERMINAL FUNCTIONS



NOTES: PROVIDE MODULATING ZONEX ROUND OR RECTANGULAR DAMPER OR D-FUSER DESIGNED TO SUPPORT UP TO 1.75" S.P.

AUX CONTACTS USED TO CONTROL SUPPLEMENTAL HEAT SOURCE: I.E. BASEBOARD OR RADIANT PANEL IF ELECTRIC HEAT IS USED AN AIR PROVING SWITCH MUST BE INSTALLED

VISIT OUR ON-LINE CATALOG AT ZONEXPRODUCTS.COM

FOR APPLICATIONS ASSISTANCE CALL 800-228-2966

ZONEX SAMOD		
THERMOSTAT	T-1	SAMOD - TOUCH SCREEN THERMOSTAT
TRANSFORMER	TR-1	SYSTEM POWER 24 V- 40 VA
LAT SENSOR	TS-1	DUCT TEMPERATURE SENSOR
TERMINAL CONNECTIONS		
SAMOD CONTROLLER AND ACTUATOR		
TR-1	24 VAC POWER INPUT	
TR-2	24 VAC POWER COMMON	
RO	DAMPER RUN OPEN SIGNAL	
RC	DAMPER RUN CLOSED SIGNAL	
MC	24 VAC MOTOR COMMON	
DS	DUCT TEMPERATURE SENSOR	
AUX	OPTIONAL AUXILIARY HEAT	
COM	AUXILIARY HEAT COMMON	

FEATURES

- Full Color Touch Screen Display
- High Tech look and operation
- Auto Changeover
- Adjustable Aux or Reheat operation
- Control round, rectangular dampers or D-Fuser
- Diagnostic tool for thermostat operation
- Control fully modulating dampers
- Display Duct Temperature
- Set point lock
- Display lock out
- 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

ORDERING INFORMATION

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