



SUBMITTAL



ModStat *Communicating / Modulating Zone Thermostat*

DESCRIPTION

The **ModStat** is a microprocessor based, auto changeover, communicating zone thermostat. The ModStat controls modulating medium pressure and heavy duty dampers. The ModStat zone thermostat is used with the **GEN II-VVT** zoning system.

The ModStat controls and modulates zone dampers based on variance from set point to a position that will match the supply load to the demand requirement. When the HVAC unit is running, if a zone thermostat is not calling or is calling for the opposite mode, its corresponding damper fully closes. When the HVAC unit is not running, the thermostats open to the Vent mode to provide ventilation, if the indoor blower fan is running continuously.

The ModStat is easy to configure and adjust manually with the function buttons located on the front cover.

The space ambient temperature is continuously displayed with a range of 55° to 95° F. Programmed setpoints can be manually adjusted or electronically locked through the program to provide limited manual setpoint adjustment. Two-hour override is provided for after hour's operation, with a touch of a button. The thermostat can be easily field calibrated, if required.

The ModStat can be field configured for baseboard and reheat operations, including Fan Powered Boxes.

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

TECHNICAL DATA

Electrical:

Supply voltage: 24vac

Power consumption: 4va maximum

Input:

- 24vac
- Platinum Thermistor

Outputs:

- RO RC Triacs - 24vac @ .3 amp max
- W1 Relay - 24vac @ 1.0 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: 3 1/2" H x 4 1/2" W x 3/4" D

Temperature Display Range: 55° to 95° F

Accuracy: +/- 0.8° F

Memory: Non-volatile EEPROM

Display: 128x64 Graphic LCD

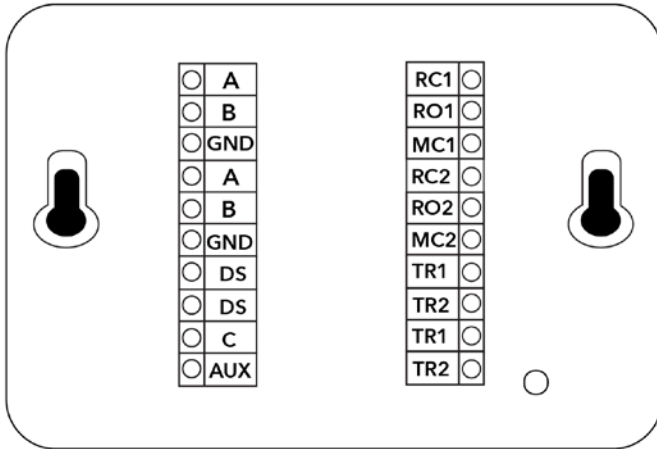
Communication: RS485

Twisted pair wire

Rev 4/25/18

ModStat

TERMINAL FUNCTIONS



24V Terminal Block

RO2 – Slave Damper – Run Open
RC2 – Slave Damper - Run Close
MC2 – Slave Damper - Damper common
RO – Run Open, damper
RC – Run Close, damper
MC- Damper common
AUX – Reheat/AUX Heat Fan
C- AUX common
TR1- 24vac power In and Out
TR2- 24vac common In and Out
(18 ga. Minimum wire size)

Communication Terminal Block

A – Data Transmit
B – Data Receive
A – Data Transmit
B – Data Receive
(Twisted pair)

FEATURES

- Auto Changeover
- Control Fully Modulating Dampers
- Adjustable Aux or Reheat Operation
- F or C Temperature Operation
- Control round, rectangular dampers or D-Fuser
- Diagnostic tool for thermostat communication
- Temperature Calibration
- Set point lock
- Auto / Off switch
- Non volatile memory retains stored set points.
- Slave capability – up to 3 dampers per stat
- Minimum or Maximum position adjustment

ACCESSORIES

<u>Part No.</u>	<u>Description</u>
ModStatRS	ModStat thermostat with remote sensor
RZKIT	Thermostat and actuator as a package for VVT, and other, upgrade.