SA STAT PROGRAMMABLE COMMUNICATING THERMOSTAT

DESCRIPTION

The Zonex Systems SA STAT is a microprocessor based, auto changeover, wired programmable communicating stand alone thermostat. The universal stand alone communicating thermostat operates and communicates with our remote based App from a Wi-Fi mobile device, with the GENX and GEN UC systems.

The SA STAT is very easy to configure for Gas/ Elec (2-stage Cool / Heat) or Heat Pump (2-stage Cool / 3-stage Heat) configuration. The SA STAT is hard wired to the unit and communicates back to the control board via the RS-485 communication link.

The SA STAT is equipped with Supply and Return air sensors to monitor duct temperatures, accessible for viewing remotely.

The SA STAT thermostat features an onboard thermistor for precise temperature measurement. In the event of power loss, the Heat and Cool set points are stored in a non-volatile memory, without the need for battery backup.

The ambient space temperature is continually displayed with large, easy-to-read numbers. The temperature display range is 45° to 95° F. FAN mode, Heat or Cool set points and operation modes are all indicated on the display.

Programmed set points can be manually adjusted at the thermostat or electronically locked and controlled through a mobile device, to provide limited manual set point adjustment. Two-hour override is provided for after-hours temporary operation with a touch of a button.

TECHNICAL DATA

Electrical:
Supply Voltage: 24vac
Power consumption: 4 VA maximum
Input:
• 24vac
• platinum Thermistor
Output:
• Triac, 24vac @ 1A
Communication: RS-485
3 Wire Twisted pair

Environmental:
Operating temperature: 35° to 130° F (2° to 54° 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° to 95 ° F.
Accuracy: +/- 0.8° F.
Memory: Non-volatile EEPROM
Display: 128x64 Graphic LCD

Notes:
*Compatible with GEN X, and GEN UC

Rev 4/27/18
TERMINAL FUNCTIONS

Unit Terminal Block
- Y1 - First stage cool
- Y2 - Second stage cool
- W1 / O/B - First stage heat or Reversing Valve
- W2 - Second stage heat
- G - Fan
- R - 24v from the unit

24v from Independent Transformer
- TR1 IN - 24vac power input
- TR2 IN - 24vac power common
- TR1 OUT - 24vac power input
- TR2 OUT - 24vac power common
- 18 ga. Minimum wire size

Communication Terminal Block
- A IN - Data Transmit
- B IN - Data Receive
- GND IN - Ground Wire
- A OUT - Data Transmit
- B OUT - Data Receive
- GND OUT - Ground Wire
- Use Zonex 3 Wire Twisted Pair

Supply and Return Air Terminal Block
- RTN - Return Air
- LV - Supply Air

FEATURES
- Gas /Elect (2C/2H) or Heat Pump (2C/3H) stand alone control
- Emergency Heat operation
- Auto Changeover 7-day Programmable
- Attractive design
- No batteries required
- Accurate temperature control
- Electronic Lock feature
- Configurable fan operation for Occupied mode
- Supply and Return Air monitoring
- F° or C° Temperature Operation
- Auto / Off switch
- Non-volatile memory: Retains temperature set points, time, date and schedules
- RS-485 communication
- Function buttons on front cover for easy access
- Communicates with GEN X mobile App