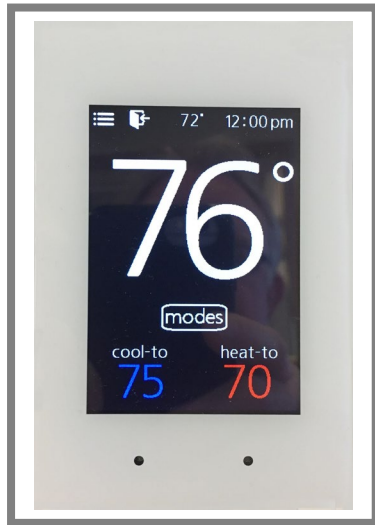


# SATouch PROGRAMMABLE COMMUNICATING THERMOSTAT



## SUBMITTAL



## SATouch Controls Stand Alone units Programmable Communicating Gas/Electric / Heat Pump Thermostat

### DESCRIPTION

The Zonex Systems **SATouch** is a microprocessor based, auto changeover, touch screen programmable communicating standalone thermostat. The universal standalone communicating thermostat operates and communicates with our GEN II system.

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

The SATouch is equipped with a 24v occupied output signal to the economizer when the SATouch is in occupied operation.

The SATouch 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 hour's operation. The thermostat can be easily field calibrated, if required.

### TECHNICAL DATA

#### **Electrical:**

**Supply Voltage:** 24VAC

**Power consumption:** 5VA maximum

#### **Input:**

- 24VAC
- Humidity/Temperature (0-100% RH) +/-2% RH and +/-0.2 °C

#### **Output:**

- 1 x 24VAC Bistable Relay
- 6 x 24VAC @ 2A Relay's

**Communication:** RS-485 – Zonex 3 Wire Twisted pair

#### **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°

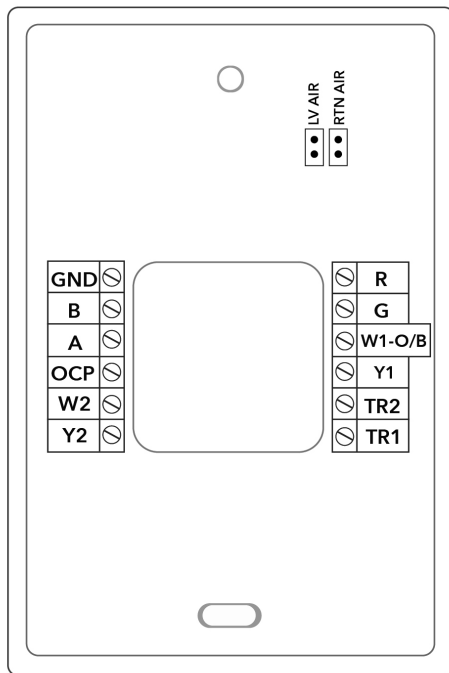
#### **Notes:**

\*Compatible with GEN II

Rev 4/30/21

# SATouch PROGRAMMABLE COMMUNICATING THERMOSTAT

## 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  
OCP – 24v output when in occupied mode

### 24v from Independent Transformer

TR1 - 24vac power input - In and Out  
TR2 - 24vac power common - In and Out  
Use 18 ga. Minimum wire size

### Communication Terminal Block

A - Data Transmit - In and Out  
B - Data Receive - In and Out  
GND – Not Used  
Use Zonex 2 Wire Twisted Pair

### Supply and Return Air Terminals

RTN- Return Air  
LV- Supply Air

## FEATURES

- Full Color Touch Screen Display
- Gas /Elect (2C/2H) or Heat Pump (2C/3H) standalone control
- Emergency Heat operation
- Auto Changeover 7-day Programmable
- Attractive design
- Accurate temperature control
- Electronic Lock feature
- Configurable fan operation for Occupied mode
- F° or C° Temperature Operation
- Auto / Heat only / Cool only / Off operation
- Non-volatile memory: Retains temperature set points
- RS-485 communication
- Temperature Calibration
- Supply and Return Air monitoring
- 24v occupied output signal to RTU for economizer operation