

# EzTouch – Color Touch Screen Zone Thermostat

## SUBMITTAL



## **EzTouch** *Communicating / Modulating Color Touch Screen Zone Thermostat for use with the GEN II - VVT Zone System*

### DESCRIPTION

The **EzTouch** is a microprocessor based, auto changeover, communicating color touch screen zone thermostat. The EzTouch can operate two position (spring open/power close), modulating medium pressure, and heavy-duty dampers. The EzTouch zone thermostat is used with the **GEN II-VVT** zoning system.

Two position dampers remain open when the system is in the vent mode or when the EzTouchX is calling for the same mode as the HVAC unit is currently operating in. If the EzTouchX is calling for the mode opposite to what the HVAC unit is calling for or is satisfied the two position damper will remain closed. The EzTouchX controls modulating zone dampers based on variance from set point to a position that will match the supply load to the demand requirement. While the HVAC unit is running and 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 EzTouch is easy to configure and adjust via the touch screen display. Zone ambient temperature is continuously displayed with a range of 55° to 95° F and reports the RH% of the space it is located in. Set points can be manually adjusted at the thermostat. Thermostats can be locked from the GEN II controller to prevent set point adjustment at the thermostat. Override operation is set for a 2 hour window to provide for after-hours operation.

The EzTouch can be field configured for auxiliary heat operations: baseboard, reheat\*, and fan powered boxes with an adjustable dead band of 2-4°.

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

### TECHNICAL DATA

#### Electrical

**Input voltage:** 24VAC

**Power consumption:** 5VA maximum

#### **Output:**

- RO/RC Triacs – 24VAC @ .3 amp max
- AUX Heat Relay – 15VA @ 24 VAC max

#### Temperature/Humidity Sensors

**Display Range:** 55° to 95° F

**Humidity Sensor:** (0-100% RH) +/-2% RH

#### 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 1" D

**Accuracy:** +/- 0.8° F

**Memory:** Non-volatile EEPROM

**Display:** 320x480 3.5 TFT

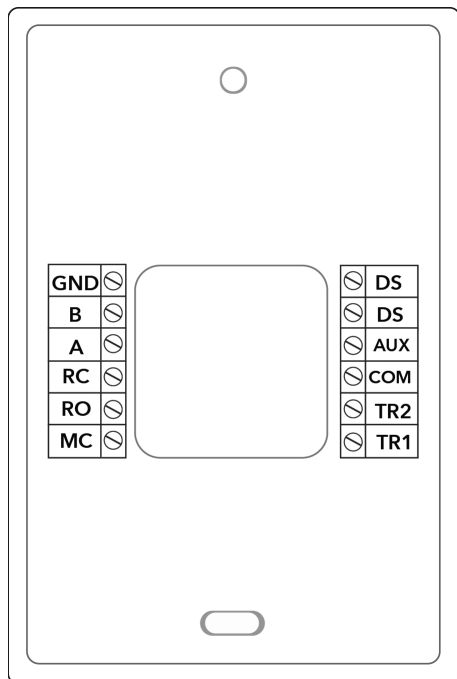
**Viewing Angle:** 140°

**Communication:** RS485 using Zonex twisted pair wire

Rev 5/3/21

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## TERMINAL FUNCTIONS



### 24V Terminal Block

RO – Run Open, damper  
RC – Run Close, damper  
MC – Damper common

AUX – Reheat/AUX Heat Output  
COM – Aux Common

DS – Duct Sensor (optional)  
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TR1- 24vac power - In and Out  
TR2- 24vac common - In and Out  
(18 ga. Minimum wire size)

### Communication Terminal Block

A – Data Transmit - In and Out  
B – Data Receive - In and Out  
GND – Not Used  
(Zonex Twisted pair communication wire)

## FEATURES

- Full Color Touch Screen Display
- High Tech look and operation
- Auto Changeover
- Adjustable Aux or Reheat operation
- Control Round or Rectangular Dampers
- Diagnostic tool for thermostat communication and operation
- Control fully modulating dampers
- Relative Humidity reporting
- 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
- Optional Duct Temperature monitoring (LAT sensor is not included)

## ACCESSORIES

### Part No.

### Description

RZKIT	Thermostat and actuator as a package for VVT upgrades
EzTouch-RS	EzTouch thermostat with remote sensor
LAT	Leaving Air Temperature sensor