

## SUBMITTAL



## **EzTouchV – HUB Thermostat Controller** *Communicating / Modulating* **Color Touch Screen Zone Thermostat** *for use with the GEN V Building Automation System*

### DESCRIPTION

The **EzTouchV** is the central HUB for configuring & managing both the system's thermostats and the GEN V controller. The EzTouchV also functions as a zone thermostat operating two position (spring open/power close), modulating medium pressure, heavy-duty dampers, and communicate with SAVs for VRF-VAV systems.

The EzTouchV/HUB stat is the interface for the management and control of 2 - 20 thermostats which can change set points, lock/unlock stats, and scheduling of the thermostats. The HUB stat is also the interface for the management and control of the GEN V controller. This includes the unit type (Gas, Heat Pump, or VRF operation), unit staging, ADR, vacation scheduling, override operation, zone overview, and system diagnostic overview. The EzTouchV is the central HUB and operational center to control and manage all system components.

Additionally, the EzTouchV also functions as a zone thermostat operating several damper types. Two position dampers remain open when the system is in the vent mode or when the EzTouchV is calling for the same mode as the HVAC unit is currently operating in. If the EzTouchV 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 EzTouchV 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 space ambient temperature is continuously displayed with a range of 55° to 95° F and reports RH% in the space. Set points can be manually adjusted at the thermostat or from the management interface. The thermostat can be locked through the management interface to limit or prevent set point adjustment at the thermostat. Override operation can be configured for a 2-8 hour window to provide for after-hours operation.

The EzTouchV 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 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

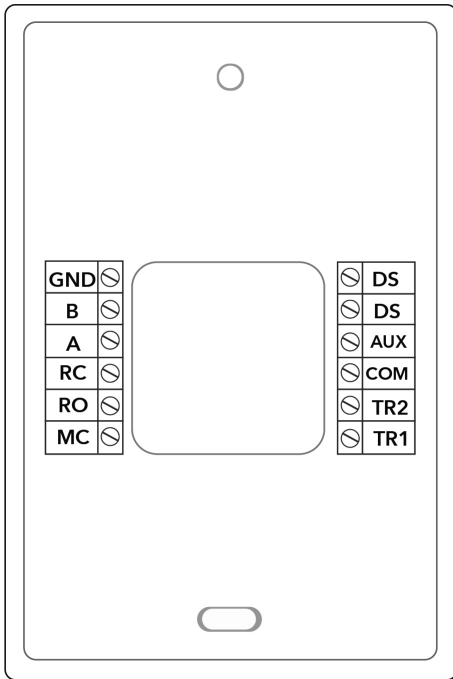
**Viewing Angle:** 140°

**Communication:** RS485 using Zonex 3 wire twisted pair

12/23/20

# EzTouchV – Color Touch Screen HUB Controller and Zone Thermostat

## 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)  
DS – Duct Sensor (optional)

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 - Ground  
(Use Zonex Three wire 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

<u>Part No.</u>	<u>Description</u>
EzTouchV-RS	EzTouchV thermostat with remote sensor
LAT	Leaving Air Temperature sensor

\*Smart Air Values (SAV) dampers cannot be slaved