EzTouchV – Color Touch Screen HUB Controller and Zone Thermostat

SUBMITTAL

Zonex SYSTEMS
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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 programming 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.

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. 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 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
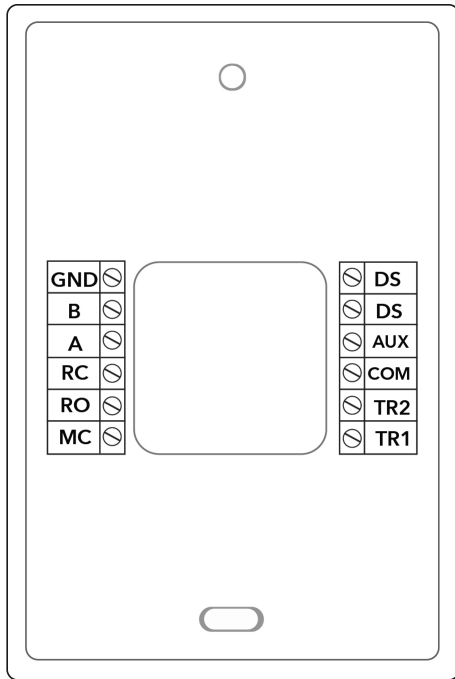**Memory:** Non-volatile EEPROM
Display: 320x480 3.5 TFT
Viewing Angle: 140°

Communication: RS485 - 2 wire Plenum rated twisted pair Zonex Wire

4/12/21

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TERMINAL FUNCTIONS

GND ⊘	⊘ DS
B ⊘	⊘ DS
A ⊘	⊘ AUX
RC ⊘	⊘ COM
RO ⊘	⊘ TR2
MC ⊘	⊘ TR1

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 – Not Used
(Use Zonex Two 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

Part No.	Description
EzTouchV-RS	EzTouchV thermostat with remote sensor
LAT	Leaving Air Temperature sensor

*Smart Air Values (SAV) dampers cannot be slaved