

EzTouchXV – Color Touch Screen Zone Thermostat

SUBMITTAL



EzTouchXV *Communicating / Modulating* *Color Touch Screen Zone Thermostat* *for VRF-VAV applications*

DESCRIPTION

The **EzTouchXV** is a microprocessor based, auto changeover, communicating zone thermostat. Each EzTouchXV controls a pressure independent self-balancing Smart Air Valve (SAV). This communicating zone thermostat is used with the **GEN XV** for VRF-VAV control systems.

The EzTouchXV sends the Smart Air Valve pre-selected air velocity targets. These targets are Cool, Vent and Heat. The Thermostat sends the desired target based on variance from set point. The SAV will match the target velocity to the exact CFM of air flowing through the SAV. Many Smart Air Valves can be connected to a refrigerant Fan Coil. As SAV's are sent high and low targets the varying air flow will cause the Fan Coils expansion valve to send information to the VRF systems inverter to reduce compressor RPM to save energy. The thermostat also sends Cool and Heat votes to the Gen XV system controller to generate Cool, Heat or Off operation. In the Off mode all dampers go to their minimum ventilation position to meet code requirements.

The EzTouchXV is easy to configure and adjust manually with the function buttons located on the front cover or remotely from the GEN X Mobile app.

The space ambient temperature is continuously displayed with a range of 55° to 95° F. Programmed setpoints can be manually adjusted or electronically locked through the program to provide limited manual set point adjustment. Adjustable 2-8 hour override is provided for after hour operation, with a touch of a button. The thermostat can be easily field calibrated, if required.

The EzTouchXV can be field configured for baseboard and reheat operations.

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

TECHNICAL DATA

Electrical:

Supply voltage: 24vac

Power consumption: 4va maximum

Input:

- 24vac

Outputs:

- RO RC Triacs - 24vac @ .3 amp max
- AUX Heat Relay - 24vac @ 10 amp maximum

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

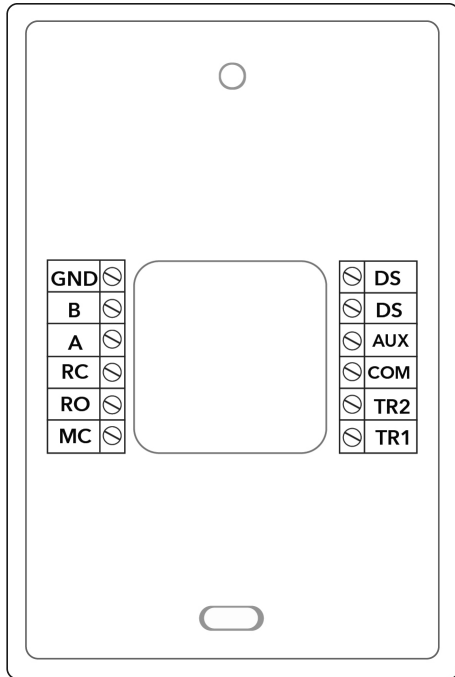
Viewing Angle: 140°

Communication: RS485 using Zonex 3 wire twisted pair

Rev 4/16/20

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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)
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
(Twisted pair)

FEATURES

- Full Color Touch Screen Display
- High Tech look and operation
- Auto Changeover
- Adjustable Aux or Reheat operation
- Control round, rectangular dampers or D-Fuser
- Diagnostic tool for thermostat communication and operation
- 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