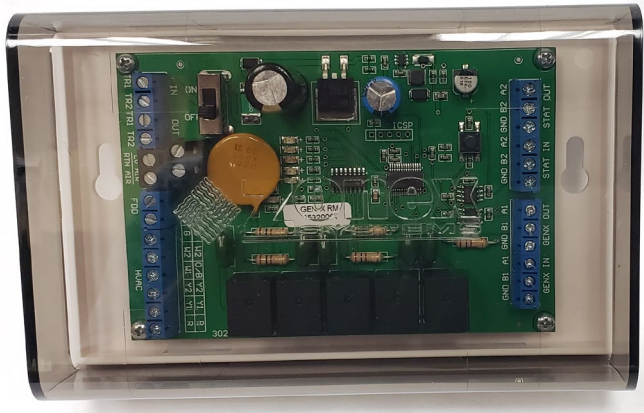


# GEN X RMV ADD-ON SYSTEM CONTROLLER



## SUBMITTAL



## **GEN X RMV** System Controller To Expand System Capability

### DESCRIPTION

The GEN X RMV is a microcontroller based, auto changeover Universal system controller (Part # GEN X RMV). The GEN X RMV controls a fan coil or indoor unit in VRF applications and supports up to 20 energy saving pressure independent self-balancing Smart Air Valves (SAV). Communications hub is APP based and accessed via mobile phone, tablets or the web browser.

The GEN XV gathers information every 60 seconds from each thermostat (VRF-STAT) that communicates with Smart Air Valves over a 3-wire data link directing control-based decisions to the fan coil or indoor unit.

The GEN X RMV is powered with one 24VAC 100VA transformer, which also powers all Smart Air Valves and thermostats in the system. Power from the controller, along with a 3-wire twisted pair communications loop, is daisy chained from SAV to SAV and thermostat to thermostat to streamline installation and system communications.

The GEN X RMV is equipped with integrated capacity control. Leaving air and return air sensors are also provided. Auto changeover operation is vote based, predicated on a first call, first served, majority wins on changeover algorithm.

Additional control strategies are established on the APP based communications hub which shall interact and initiate control decisions with the GEN XV system controller and each thermostat or remote sensor in the system.

### TECHNICAL DATA

#### **Electrical**

**Supply Voltage:** 24vac

**Power consumption:** 0.7 VA

#### **Inputs:**

24vac

2 Temperature Sensing Thermistors

#### **Outputs:**

24vac

5 SPST dry contacts, 1A @ 24vac

**Fuse protection:** Use Fused Transformer

#### **Environmental**

**Operating temperature:** 32 to 160° F (0 to 71° C)

**Operating humidity:** 10-95%, non-condensing

**Storage temperature:** 0 to 160° F (-18 to 71° C)

#### **General**

**Communications:** 3 wire Plenum rated twisted pair Zonex Wire

**Enclosure Dimensions:** 6 ¼" x 4 ¼" x 1"

6/8/20