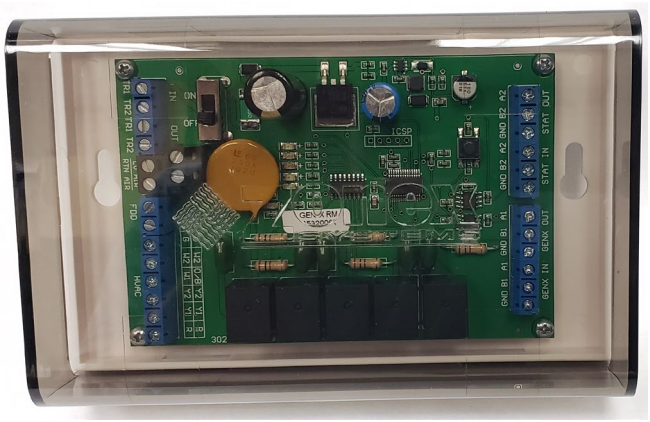
GEN X RMV ADD-ON SYSTEM CONTROLLER

SUBMITTAL



GEN X RMV

System Controller
To Expand System Capability

DESCRIPTION

The G*EN 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 (EzTouchX) that communicates with Smart Air Valves over a 2-wire data link directing control-based decisions to the fan coil or indoor unit.

The *GEN X RMV* is powered with one 24 V 100VA transformer, which also powers all Smart Air Valves and thermostats in the system. Power from the controller, along with a 2-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 leaving air, return air, and, outside air sensors. Capacity control is governed by the VRF unit's internal high & low limits. 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: 2 wire Plenum rated twisted pair Zonex Wire

Enclosure Dimensions: 6 ¼" x 4 ¼ "x1"

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