SUBMITTAL

DESCRIPTION

The GEN X-RM is a microcontroller based, auto change-over Universal Gas/Electric or Heat Pump system controller (Part # GEN X-RM). The GEN X-RM controls units that communicate with the GEN X system that will control a zoned 2H/2C Gas/Electric unit or 3H/2C zoned Heat Pump unit and communicates with and supports up to 20 zones per GEN X-RM, utilizing pressure dependent, modulating dampers and wired or wireless thermostats. GEN X-RM communicates with the GEN X communications hub via (RS485) communication loop and is accessed through the mobile app via your mobile phone, tablet or the internet.

The GEN X gathers information every 60 seconds from each thermostat (ZSTAT) or damper board used with (WSTAT) while the thermostats communicate with the system over a 3-wire data link directing control based decisions to the HVAC equipment.

The GEN X is powered with one 24 V 40VA transformer, which also powers all dampers and thermostat (if wired) in the system. Power from the controller, along with a 3-wire twisted pair communications loop, isaisy chained damper to damper with wireless thermostats or wired thermostat to wired thermostat to streamline installation and system communications.

The GEN X-RM is equipped with integrated capacity control and High and Low temperature limits to protect compressors and heat exchanger. Supply Air and Return Air sensors are also provided. The HVAC unit is staged based on leaving air temperature and time. 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 X system controller and each thermostat or remote sensor in the system.

GEN X-RM
System Controller
To Expand System Capability

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” x1”

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