

GEN UC- RM EXPANSION CONTROLLER

SUBMITTAL



GEN UC-RM **Expansion Controller** **To Expand System Capability**

DESCRIPTION

The GEN UC-RM (Part# GENUC-RM) is a microprocessor based, digital communicating controller designed to communicate and control stand alone G/E or HP units, either RTU or split type system remotely over the internet. The GEN UC-RM communicates with the GEN UC system and communicates with and supports up to 20 stand alone units per GEN UC-RM. The GEN UC-RM communicates with the GEN UC communications hub via (RS485) communication loop and is accessed through the mobile phone or device over local area network (LAN) or the Internet.

Each GEN UC-RM supports up to 20 additional stand alone units providing support and control of up to 400 thermostats in an expanded system.

The SA STAT (Part# SASTAT) thermostat is a universal multi-stage stand-alone communicating thermostat for direct control of Gas Electric and Heat Pump systems. The SA STAT is hard wired to the unit and communicates back to the GEN UC-RM via the RS-485 communication link. Each SA STAT is equipped with RA/SA sensors which report system operations to the mobile App. Along with Humidity status.

The GEN UC-RM is powered with one 24V 40VA transformer, which also powers all the SA STAT's. Power from the controller, along with a 3-wire plenum rated twisted pair communications loop, is daisy chained from SA STAT to SA STAT to streamline installation and system communications.

*Use the GEN UC-RM when your system exceeds 20 HVAC units.

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"

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