

SUBMITTAL



GEN UC Wi-Fi Mobile App based Communicating Controller To Support Stand Alone Equipment

DESCRIPTION

The GEN UC (Part# GENUC) 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 will communicate and control up to 20 SA STATS. Communications hub is App based and accessed via mobile phone, or device over local area network or the internet.

The GEN UC is expandable using up to 20 add-on GEN UC-RM controllers that are daisy chained together via the (RS485) communications loop.

Each GEN X 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 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 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.

TECHNICAL DATA

Electrical:

Supply Voltage: 24vac

Power consumption: 0.7 VA

Inputs: 24vac

RS-485 communication terminal

Outputs: 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"