

## 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 SA STAT (Part# SASSTAT) 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.

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.

Then Gen UC is expandable using up to 20 add-on Gen X 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.

### 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"