

**SIMPLWINDOWS NAME:** Alerton Thermostat Control  
**CATEGORY:** HVAC  
**VERSION:** 1.0  
**SUMMARY:** Provides standard thermostat controls for Alerton HVAC system

**GENERAL NOTES:** This module is designed to work with Alerton IBEX points. An IBEX point is a number from 1-999 that can be defined in the Alerton system to monitor the state of any sensor, or to control any device. Any TUX points that exist on the system can also be defined as an IBEX point. The persons installing the Alerton system can program these points.

This module will only work with IBEX points. This module works in conjunction with the ALERTXRX module to provide emulation of a single Alerton Microset thermostat. A separate copy of this module should be used for each thermostat desired to control or monitor. No matter how many copies of this module are used, they will all connect to a single copy of the ALERTXRX module. The module will monitor and allow the adjustment of the current setpoint temperature. It will also monitor the current room temperature.

This module can also be used to monitor the state of any one or two analog points on the Alerton system. Just define the SETPOINT-UP and SETPOINT-DOWN inputs as 0. The module will continue to monitor the IBEX points defined and provide the level of the selected IBEX points.

There is a POLL-IN and a POLL-OUT signal on this module. The POLL-OUT should be connected to the POLL-IN on the next Alerton module. All modules should have their polling signals looped through each other. The last module in the list can be looped back to the first. It will take 2 seconds for this module to complete it's polling. These signals will allow each point being controlled or monitored to be polled one at a time.

**CRESTRON HARDWARE REQUIRED:** CNXCOM  
ST-COM

**SETUP OF CRESTRON HARDWARE:** Tested and verified at the following settings:

Baud Rate - 9600  
Parity - Odd  
Data Bits - 7  
Stop Bits - 1

**VENDOR FIRMWARE:** None

**VENDOR SETUP:** None

**CABLE NUMBER:** CNSP-121

## CONTROL:

**IBEX-SETPOINT** A Driven by an INIT symbol. Contains the analog IBEX point to be used for setpoint temperature

**IBEX-ROOMTEMP** A Driven by an INIT symbol. Contains the analog IBEX point to be used for the room temperature

<b>SETPOINT-UP</b>	D	Used to adjust the current setpoint up
<b>SETPOINT-DOWN</b>	D	Used to adjust the current setpoint down
<b>POLL-IN</b>	D	Used to trigger the polling of the current setpoint and room temperature settings. This should be looped through all Alerton modules in the system
<b>MAX-TEMP</b>	P	A number to designate the maximum temperature that the setpoint can be set to. Must be a value between 50-99
<b>MIN-TEMP</b>	P	A number to designate the minimum temperature that the setpoint can be set to. Must be a number from 50-99 and less than the MAX-TEMP

## FEEDBACK:

<b>POLL-OUT</b>	D	Goes high when the module is finished polling (2 seconds after it starts). This should be looped through all Alerton modules in the system
<b>SETPOINT-AN</b>	A	Analog signal containing the current setpoint temperature. Should be routed to a digital gauge on a touchpanel
<b>ROOMTEMP-AN</b>	A	Analog signal containing the current room temperature. Should be routed to a digital gauge on a touchpanel
<b>TXRX-READ</b>	D	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-STORE</b>	D	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-SETPOINT</b>	A	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-FEEDBACK-1</b>	A	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-FEEDBACK-2</b>	A	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-READ-POINT</b>	A	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-WRITE-POINT</b>	A	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-ON</b>	D	A signal to be sent to the corresponding input on the ALERTXRX module.
<b>TXRX-OFF</b>	D	A signal to be sent to the corresponding input on the ALERTXRX module.

**OPS USED FOR TESTING:** 3.16.08  
**COMPILER USED FOR TESTING:** 3.18.04  
**SAMPLE PROGRAM:** ALERTST1  
**REVISION HISTORY:** None