

# Quick Start Guide



## AVR Airflow and Temperature Control System

Models: AVR6000 & AVR4000

This Quick Start Guide gives a brief description of the steps needed to configure the AVR airflow and temperature control system. For more details about installation, wiring, and start-up, refer to the individual product Submittal Drawings, User Manuals, and Job-Specific Requirements.

### START UP

Before proceeding with the start-up, verify the following items have been completed:

- All installation has been completed and verified.
- All wiring has been completed and verified.
- Power is present at the AVR6000 or AVR4000 and verified to specifications.
- The configuration PC has Insight loaded and is operational.

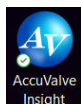
#### 1. Connect PC to AVR or ARS

- Use wireless connection or plug a USB-C cable into the AVR controller or in the bottom receptacle on the ARS and the other end to a PC USB port.



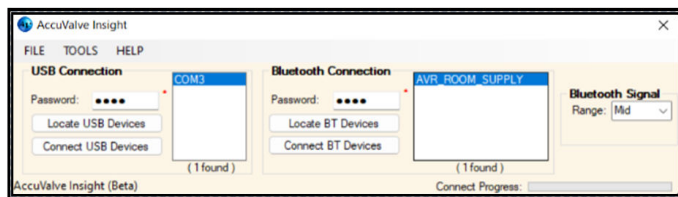
Note that Wireless will not work if USB cable is connected or if the PC is too distant from the AVR control valve.

#### 1a. Start AccuValve Insight Program



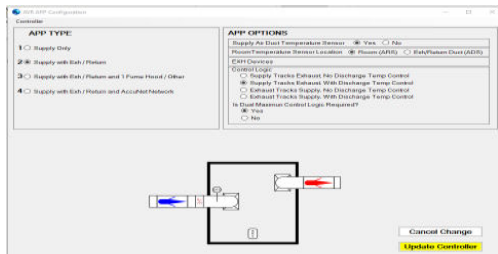
#### 1b. Search and Select Com Port

- Double click on COM-x in the USB Connection window **OR** click 'Locate BT Devices' and double click on the Valve Tag Name in the Bluetooth Connection window.



#### 1d. Select APP Type for Desired Control Sequence

- Select from 1 of 4 APP Types and Complete APP Option selections.



Select **Update Controller** when done.

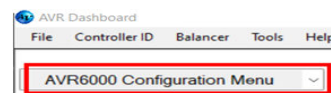
### 1f. App Selection Guide

- After the App has been selected in the previous window and controller is updated, Insight will update with a more detailed display showing the dashboard. In the upper left corner is a pull down menu which will appear with selections to complete the configuration of the AVR.

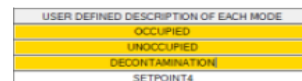
### 2. AVR Configuration

#### 2a. Setpoint Configuration

- In the AVR Configuration pull down menu, select option 1. Setpoint Configuration.



- Enter a name for USER DEFINED DESCRIPTION OF MODE for each mode as needed.



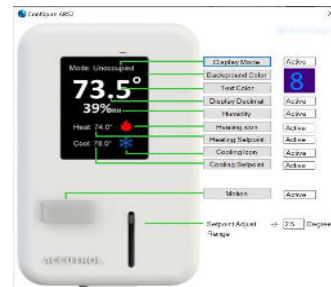
- Enter the Control Setpoint values in the active cells for each mode as needed.

SETPOINT MODE		MODE 1	MODE 2	MODE 3	MODE 4
USER DEFINED DESCRIPTION OF EACH MODE		NOT USED	NOT USED	NOT USED	NOT USED
CONTROL SETPOINT NAME		UNITS			
VAV	Min Supply Airflow Set Point	CFM	250	250	250
	Max Supply Airflow Set Point	CFM	1150	1150	1150
CAV	CAV Supply Airflow Set Point	CFM	74	74	74
	Max Heating Supply Airflow Set Point	CFM	550	550	550
	Min General Exhaust Airflow Set Point	CFM	0	0	0
	Max General Exhaust Airflow Set Point	CFM	0	0	0
	CAV General Exhaust Airflow Set Point	CFM	76	76	76
	Room Exhaust Airflow Set Point	CFM	-150	-150	-150
Enable	Room Temperature Heating Set Point	Deg. F	55.0	55.0	55.0
	Room Temperature Cooling Set Point	Deg. F	99.0	99.0	99.0
	Min Discharge Temperature Set Point	Deg. F	0.0	0.0	0.0
	Max Discharge Temperature Set Point	Deg. F	0.0	0.0	0.0

- Select **Update Controller** when done.

#### 2b. ARS Configuration

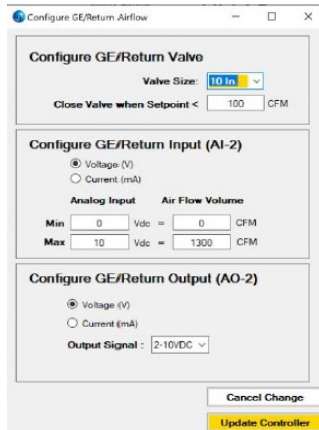
- In the AVR Configuration pull down menu, select option 2. ARS Select Configuration.
- From the selection window, select the correct model of the ARS. Verify the picture matches the ARS model that has been provided. Select "Configure ARS" when done.
- Multiple display options will be present for the user to choose from. For more information, refer to the ARS Quick Start Guide or User Manual.



Select **Update Controller** when done.

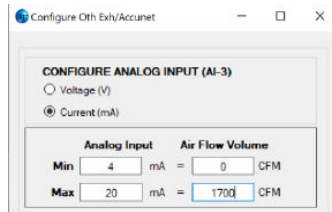
## 2c. GE/Return Configuration

- In the AVR Configuration pull down menu, select option 3. GE/Return Configuration.
- Select the GE/Return valve size.
- For AI-2, select the correct signal type and scaling so that the AVR input corresponds with the GE/Return valve signal.
- For AO-2, select the correct signal type and range that the AVR output (AO-2) corresponds to the GE/Return AVT AccuValve's actuator control signal.
- Select **Update Controller** when done.



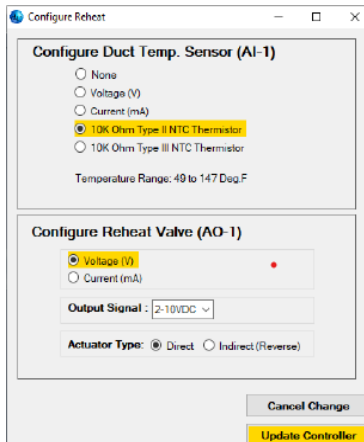
## 2d. Oth Exh/AccuNet Configuration

- In the AVR Configuration pull down menu, select option 4. Oth Exh/AccuNet Configuration for applications that include Fume Hoods and/or other independently controlled exhaust valves.
- For AI-3, select the signal type and airflow scaling that corresponds with the AVC AccuValve's output signal type and scaling.
- Select **Update Controller** when done.



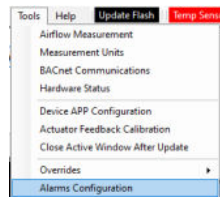
## 2e. Reheat Configuration

- For AI-1, select the correct sensor type that corresponds with the Supply Air Discharge Temperature Sensor (DTS).
- For AO-1, select the signal type, output signal range, and control action that corresponds with the Reheat Valve actuator.
- Select **Update Controller** when done.

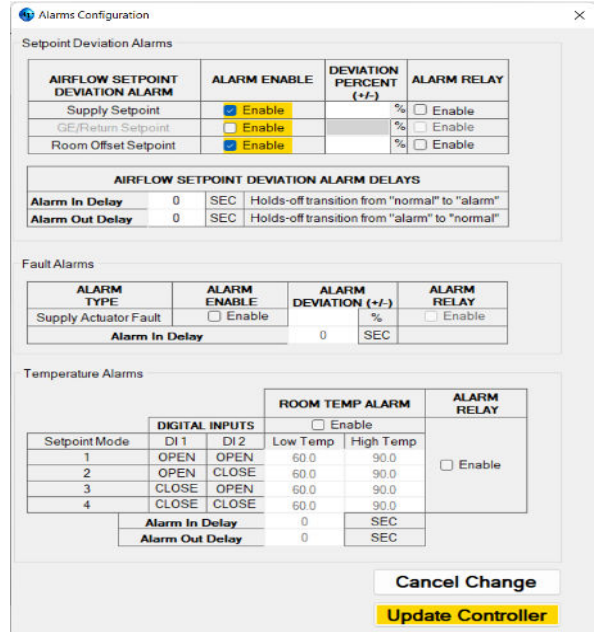


## 2f. Alarm Configuration

- In the **Tools** drop down menu, select Alarms Configuration.



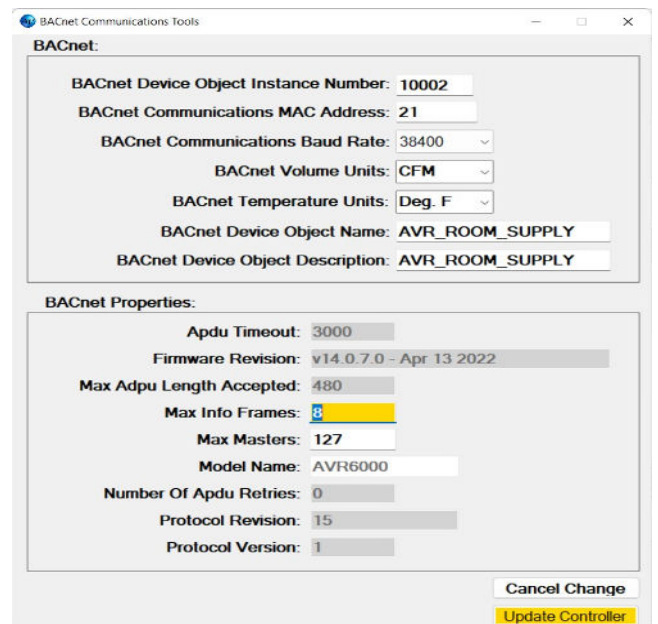
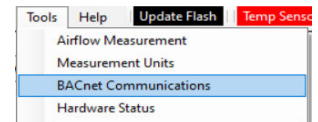
- For each alarm type needed, select to enable and enter a value for that parameter.



- Select **Update Controller** when done.

## 2g. BACnet Communications

- In the **Tools** drop down menu, select BACnet Communications if BACnet information was not already submitted during purchase.
- Enter all necessary information as needed.



- Select **Update Controller** when done.