BARTLETT Instrument Company

Get Your Controller Set Just Right!

It's important to get your outputs programmed correctly so your greenhouse runs at an optimal level. If your outputs are not programmed properly, it could cause problems and the greenhouse may not heat or cool the way you want it to. The first step is to check your hysteresis setting, set all of your Cool outputs programmed (Cool 1, Cool 2, Cool 3, and Cool 4), and finally program your Heat outputs (Heat 1 and Heat 2).

First it's important to understand what the hysteresis is. This is what allows for a separation between when the outputs turn on and off to prevent rapid cycling of appliances. The lower the hysteresis, the tighter control of temperature, but more appliance cycling. A high hysteresis results in more efficient appliance cycling but a looser control on the temperature.

Once you are ready, begin by setting the hysteresis:
    - Press the "Menu" button until HYST appears.
    - Press the "Enter" button
    - Type in the hysteresis setting (1, 2, or 3), with 3 being the loosest control and 1 being the tightest control. Then press "Enter"

Once the hysteresis is set, program the Cool outputs:
    - Press "Cool 1" and either On, Off, or AUTO will appear.
    - Press "Cool 1" until AUTO appears, then press "Enter".
    - CL 1 and a number will alternate with the step size.

- Type in the step size (The number of degrees above the set point that Cool 1 should come on.)

      - Example: If the set point is 70 degrees and Cool 1's step size is 3 degrees, Cool 1 will come on at 73 degrees

- Press "Enter" and the controller will return to idle operation.

- Repeat these steps for Cool 2, 3, and 4. Keeping in mind the step size always goes off of the set point temperature.

      - Example: Set point is 70 degrees and Cool 2's step size is 5 degrees, Cool 2 will come on at 75 degrees.

Once the Cool outputs are finished, program the Heat outputs:

- Press Press "Heat 1" and either On, Off, or AUTO will appear.

- Press "Heat 1" until AUTO appears, then press "Enter".

- HT 1 and a number will alternate with the step size.

- Type in the step size (The number of degrees below the set point that Heat 1 should come on.)

      - Example: If the set point is 70 degrees and Heat 1's step size is 2 degrees, Heat 1 will come on at 68 degrees.

- Repeat these steps to program Heat 2.

Once you've got the hysteresis, Cool outputs, and Heat outputs programmed, you should be good to go! Check back next time for more helpful tips!

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