Altelix

This enclosure is equipped with a Programmable Digital Temperature Controller which allows the user to set the on/off temperature range for the cooling fan.

Controller Display Examples

Display in Operation Mode

Set Button ➡️ ⬅️ Temperature in Enclosure

Celsius/Fahrenheit (C/F) Button ➡️ ⬅️ Set Temperature

Display in Programming Mode

While in Programming Mode the SET and C/F buttons are used to scroll Forward and Backwards ➡️ ⬅️ Program Number

⬅️ Program Value

Set Controller for Celsius or Fahrenheit

While in operation mode, press the **C/F Button** to toggle between C° (Celsius) or F° (Fahrenheit).
**Note: By default when first turned on, the controller is in Celsius mode**

Cooling / Heating Modes

The controller can be set for Cooling or Heating modes.
Note: For proper operation the controller must be set to Cooling Mode (this is the default mode).

Program P0

Step 1 - Press and hold the **SET** button for 5 seconds to enter into programming mode.
Step 2 - Using the **SET** or **C/F** buttons, scroll to program 0 (**P0**) as shown.
Step 3 - Simultaneously press the **SET** and **C/F** buttons to confirm P0. The display will then flash.
Step 4 - Using the **SET** or **C/F** buttons, change the Program Value to "C" as shown.
Step 5 - Simultaneously press the **SET** and **C/F** buttons to confirm.

Cooling Mode
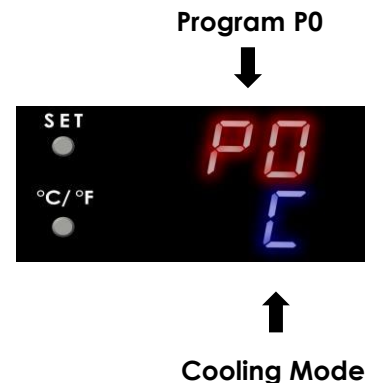
Programming the Fan On/Off Temperatures

This controller works by setting two parameters, a SET temperature and Return Difference temperature. The SET temperature is the temperature which you want to maintain in the enclosure. The Return Difference determines how high the temperature must rise in the enclosure before the cooling fan turns on. For example; if the SET temperature is set for 70°F and the Return Difference temperature is set for 5°F, this means the fan will turn on when the internal temperature reaches 75°F. Once the internal temperature cools down to 70°F, the fan will turn off.

Program P1

Setting the Return Difference and SET Temperatures

First program the Return Difference Temperature

Step 1 - Press and hold the **SET** button for 5 seconds to enter into programming mode.
Step 2 - Using the **SET** or **C/F** buttons, scroll to program 1 (**P1**) as shown.
Step 3 - Simultaneously press the **SET** and **C/F** buttons to confirm P1. The display will then flash.
Step 4 - Using the **SET** or **C/F** buttons, change the temperature to the desired value.
Step 5 - Simultaneously press the **SET** and **C/F** buttons to confirm.

Return Difference Temperature Shown set for 5°

Temperature Inside Enclosure

Now program the SET temperature

Step 6 – Press the SET button once. The temperature display will flash.
Step 7 - Using the **SET** or **C/F** buttons, change the temperature to the desired value. Wait a few seconds to confirm (once the display stops flashing, the temperature is confirmed).

The two display examples would be how to set the controller so that that cooling fan turns on at 75°F and turns off at 70°F.

SET Temperature Shown set for 70°

Warning: Setting the Return Difference Temperature to "0" may cause the fan to cycle on and off rapidly and degrade the fan lifespan. The factory default is "2.0"
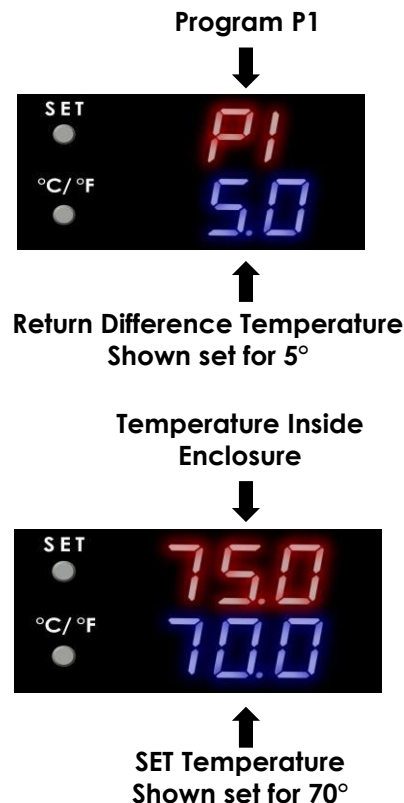
Additional Programming Parameters

Program #	Description	Setting Range	Default Setting
P0	Heating / Cooling	H/C	C
P1	Return Difference	0.1 to 30	2.0
P2	Set Upper Limit	110	110
P3	Set Lower Limit	-50	-50
P4	Temperature Correction	-15 to 15	0
P5	Delay Start	0 to 10	0
P6	High Temperature Alarm	-50 to 110	
P7	Celsius / Fahrenheit (also can be done by pressing the C/F button)	CS / FH	CS
P8	Factory Reset (also can be done by holding the SET and C/F buttons at the same time for an extended length of time)	ON-OFF	OFF