

ETC-AED300A-24 Temperature Controller

To set the temperature:

1. Press the "SET" key once and use the UP \triangle and DOWN ∇ keys to raise or lower the desired setpoint temperature. [This is the temperature you want the controller to keep your enclosure at.] Holding down the UP \triangle and DOWN ∇ keys will make the setting change faster.
2. Press the "SET" key once more to return the display to normal mode. In the normal mode or display mode, the controller displays the temperature it is measuring with the sensor.
3. If you don't press the "SET" key, the display will return to normal display mode after 6 seconds.

To change the display reading from C to F (or F to C):

1. Press and hold down the "SET" key for 6 or more seconds to enter the Parameter Set Mode.
2. The first Parameter displayed will be E1.
3. Press the "SET" key several times until the display shows "C1"
4. Use the UP \triangle and DOWN ∇ keys to change the value to either "0" or "1"
 - a. 0 (zero) is for C Celsius display
 - b. 1 (one) is for F Fahrenheit display
5. Wait 6 or more seconds and the display will return to normal.

To change the Temperature Control Mode (Heating or Cooling):

1. Press and hold down the "SET" key for 6 or more seconds to enter the Parameter Set Mode.
2. The first Parameter displayed will be E1.
3. Press the "SET" key several times until the display shows "C2"
4. Use the UP \triangle and DOWN ∇ keys to change the value to either "0" or "1"
 - a. 0 (zero) is for Cooling mode
 - b. 1 (one) is for Heating mode
5. Wait 6 or more seconds and the display will return to normal.

To change the Temperature Hysteresis:

1. Press and hold down the "SET" key for 6 or more seconds to enter the Parameter Set Mode.
2. The first Parameter displayed will be E1.
3. Press the "SET" key several times until the display shows "E3"
4. Use the UP \triangle and DOWN ∇ keys to change the value from 0.1 to 30 C (0.2 to 54 F)
 - a. Default value is 4.0 C (7.2 F)
 - b. Make the value lower to keep the temperature variations close to the Setpoint
 - c. Make the value higher to make the cooling system cycle less often
5. Wait 6 or more seconds and the display will return to normal.

To change the Delay:

6. Press and hold down the "SET" key for 6 or more seconds to enter the Parameter Set Mode.
7. The first Parameter displayed will be E1.
8. Press the "SET" key several times until the display shows "E4"
9. Use the UP \triangle and DOWN ∇ keys to change the value from 0 to 10 minutes
 - a. Default is 2 minutes
 - b. Make the value 0 minutes for thermoelectric equipment
 - c. Make the value 2 minutes or higher for compressor based equipment
10. Wait 6 or more seconds and the display will return to normal.

The following Parameters can be changed by using the same method as shown in the previous examples.

Parameter	Function	Set Range	Default value
E1	Low Setpoint Limit	-45 C (-49 F)	-35 C (-31 F)
E2	High Setpoint Limit	120 C (248 F)	90 C (194 F)
E3	Temperature Hysteresis	0.1 to 30 C (0.2 to 54 F)	4.0 C (7.2 F)
E4	Start Delay	0 to 10 minutes	2 minutes
E5	Offset on temperature	-19.9 to 20 C (-35 to 36 F)	0
C1	Temperature Units	0 = C 1 = F	0 Celsius
C2	Temperature Control Mode	0 = Cooling 1 = Heating	0 Cooling
P1	Alarm High temperature	-45 to 100 C (-49 to 212 F)	45 C (113 F)
P2	Alarm Low temperature	-45 to 100 C (-49 to 212 F)	-40 C (-40 F)
P3	Alarm delay time	0 to 90 minutes	60 minutes
P4	Alarm hysteresis	0.1 to 10 C (0.2 to 18 F)	2.0 C (3.6 F)

To do a Factory Reset:

1. Press the DOWN ▾ key and hold for 1 second.
2. Then, while still holding the DOWN ▾ key, press the UP △ key and hold for 6 seconds. The indicator will flash and all parameters will reset to factory defaults. Release both buttons.
3. Wait 6 seconds and the display will return to normal.