Twin Temperature Controller   TC-3435

Overview

The Twin Temperature Controller Model TC-3435 utilizes two Shenzhen microcomputer temperature sensor modules. It is designed to turn on equipment at preset temperatures.

Instructions

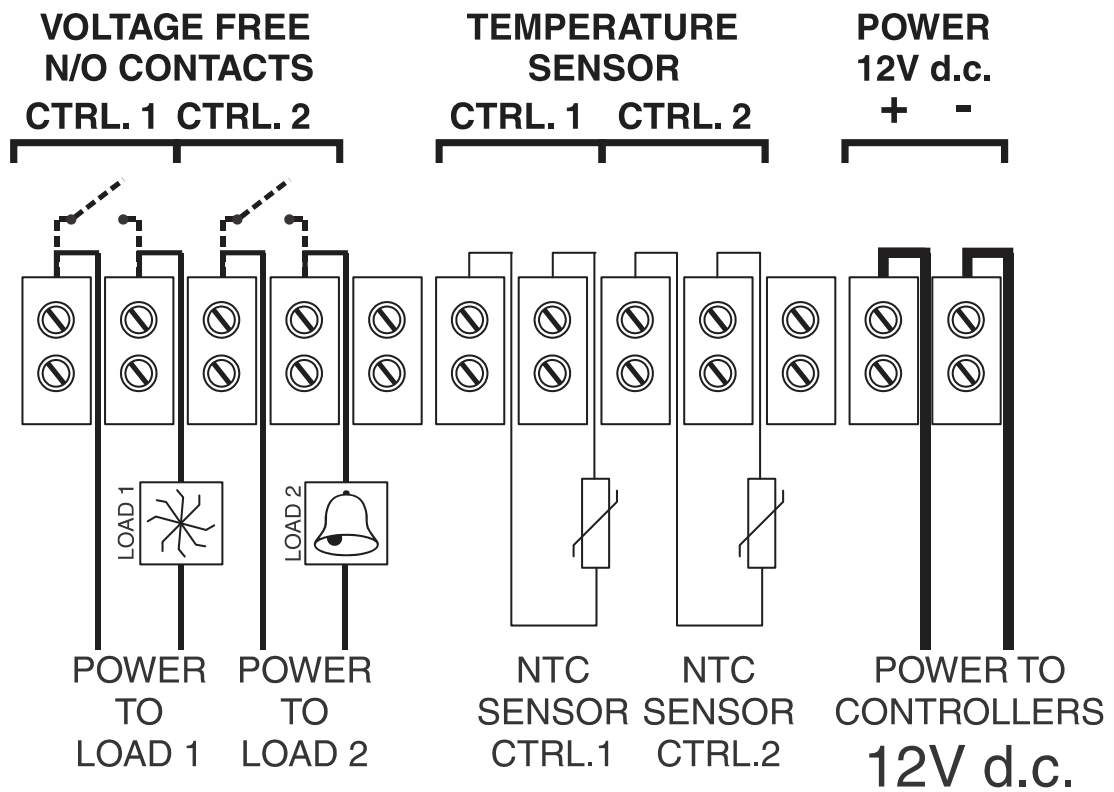1. Press and hold the SET button for three seconds to bring up the code menu

Code	Meaning	Setting Range	Default	Unit
HC	Heating/Cooling	H or C	C	—
CP	Temp Hysteresis	1 → 30	2	°C.
LA	Minimum Temp allowable	-40 → HA	-40	°C.
HA	Maximum Temp allowable	LA → 120	120	°C.
PU	Delayed Start	0 → 10	0	Minutes
CA	Temp Correction	-10 → 10	0	°C.

2. Pressing the up or down arrow button scrolls through the list of codes. When you see a code that you want to change press the SET button, use the up or down arrow button to adjust the setting, then press the SET button to save the changes. For the Department of Corrections in New Zealand the above defaults could be used.

3. Set the required turn on/off temperature by briefly pressing the SET button. Use the up or down button to select the required temperature then the unit will store this setting. This is the temperature (plus the amount of hysteresis (CP) which prevents rapid switching on and off when the temperature drifts around the set point) at which the output relay will switch on and provide a closed contact. It will automatically turn off when the temperature drops down to the set temperature.

❑   For the Department of Corrections in New Zealand, the first temperature controller turns on a fan at a nominal 22 °C.

❑   The second controller triggers an alarm to send a report if the temperature gets to a nominal 30 °C. The alarm reporting will only happen if the fan fails, or it cannot remove sufficient heat from the room, requiring human intervention.

Wiring Diagram

VOLTAGE FREE N/O CONTACTS		TEMPERATURE SENSOR		POWER 12V d.c.
CTRL. 1	CTRL. 2	CTRL. 1	CTRL. 2	+ -

LOAD 1

LOAD 2

| POWER TO LOAD 1 | POWER TO LOAD 2 | NTC SENSOR CTRL.1 | NTC SENSOR CTRL.2 | POWER TO CONTROLLERS 12V d.c. |