Thermostat -50 ~ +110°C

* Supply voltage: 12VDC
* Current consumption: 20mA / 65mA
* Temperature range: -50 to +110°C
* Resolution: 0.1°C (-10~+100°C)
* Default hysteresis: 0.1°C
* Display refresh rate: 0.5s
* Sensor: NTC 10k 0.5%
* Dimensions: 48 x 40 x 15mm
* Panel cutout: 45 x 26mm

Thermostat with frame for panel mounting with relay and NTC temperature sensor. The module can be used for turning on or off connected equipment at a set temperature. Several settings can be adjusted using the on-board push buttons, such as threshold temperature, hysteresis, heating/cooling and calibrating the sensor. The relay output can be used with AC or DC loads up to about 5A.

Two buttons on the front control all functions. The buttons are labelled “SET” and “°C/°F”. SET button is used for entering the setup menu and to increment value. C/F button is used to switch display between readout in Celsius or Fahrenheit. It is also used to decrement value. Two values are displayed on the thermostat. The first is the measured temperature and the second is the set-temperature. An LED indicates when the relay is active.

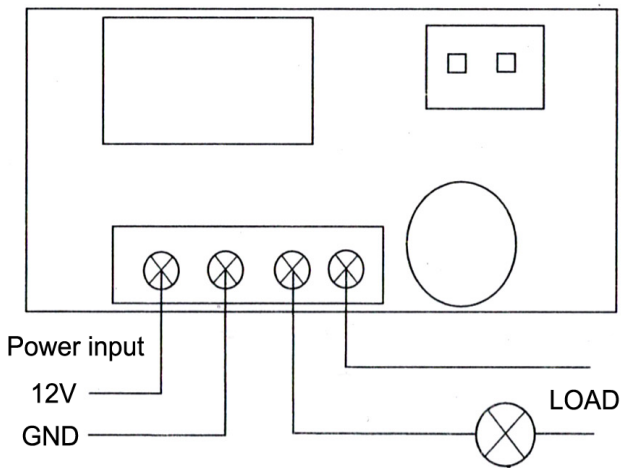
Always read instructions first and make initial settings without any load connected. Please be very careful when connecting the load.

Connect the power supply and load (see wiring diagram) to power the controller. The measured temperature as well as the set temperature will be displayed on power up. Press SET while the actual temperature is displayed, the setting text below flashes (the setting temperature below flashes). Return, at this time, the controller automatically performs relay on/off according to the set temperature.

Press and hold SET for 5 seconds to enter the main settings menu, press SET (+) C/F (-) to switch between P0-P8. When adjusting the P0-P8 parameters, if you need to adjust P0, press SET (+) and C/F (-) at the same time. P0 will flash in the display. Press SET (+) to increase value or C/F (-) to decrease. Press both buttons at the same time to confirm setting. P1-P8 is adjusted in the same way.

Program Code	Description	Setting	Default
P0	Heating / Cooling	H / C	C
P1	Hysteresis	0.1 ~ 30	2.0
P2	Set limit maximum	+110	110
P3	Set limit minimum	-50	50
P4	Temperature correction	-15 ~ +15	0
P5	Delayed start	0 ~ 10	0
P6	High temp alarm	-50 ~ +110	OFF
P7	Celcius / Fahrenheit	CS / FH	CS
P8	Restore factory default	ON / OFF	OFF

Wiring for load voltage other than 12VDC



Wiring for load voltage = 12VDC