

KT1210W-F Temperature Controller Operating Manual

1. Overview

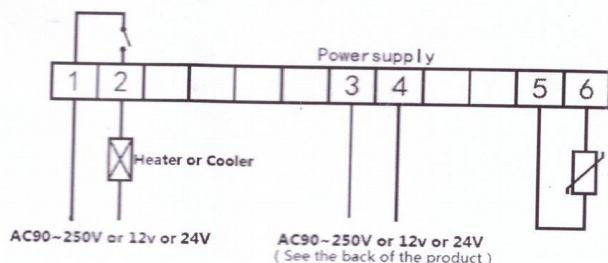
- Wide range working voltage.
- Support delay start and time shutdown.
- Heating or cooling mode can be set.
- All parameters setting can be saved after short circuit.
- high Control precision
- Can be used for domestic freezer, water tanks, refrigerator, industrial chiller, steamer, industrial equipment and other temperature-controlled system.

2. Specifications

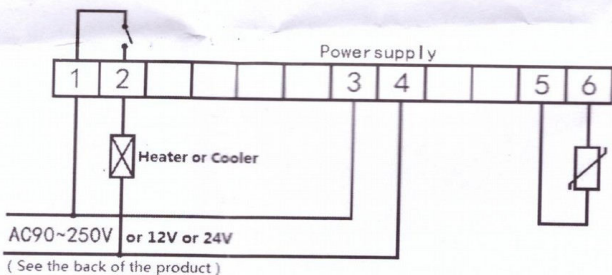
- Power Supply: AC90~250V 50/60HZ/ DC12V/ DC24V
- Temperature control range: -58°F~230°F
- Difference Set Value: 0.1~54°F
- Resolution Ratio: 0.1°F(-9.9-99.9); 1°F(other range)
- Measurement accuracy: ±1°F
- Control accuracy: 1°F
- Measuring inputs: NTC(10K0.5%) Waterproof sensor
- Output: Relay Contact Capacity 10A/220V normally open
- Environmental requirements: -20-70°C , humidity 20%~85%RH
- Size: 75mm(L)*34mm(W)*85mm(Depth)
- Hole size: 71(L)*29(W)mm
- Power consumption: Static current: ≤35MA, attract current: ≤65MA

3. Wiring Diagram

Connection 1: Independent power supply for heater or cooler



Connection 2: Same power supply for heater or cooler



4. Key Instruction

S:Set key,Confirm the setting value,Entry and Set parameter.

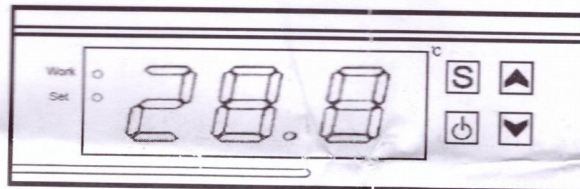
⏻:power on/off, or quit the setting.

▲:increase value

▼:decrease value

Work:output indicator

Set:Setting indicator



5. Key Operation Instruction

- In normal working status, hold ⏻ 3seconds to power off, hold ⏻ 3seconds to power on.
- In normal working status, press S. The screen display default temperature setting value and flash. Press ▲ or ▼ to increase or decrease the setting temperature value. Press S to save it and back to normal screen.
- In normal working status, press S for 3s to enter set mode. Press ▲▼ to switch from HC-A7.(see code table). Press S to enter any code,press ▲▼ to change code setting.
- Both press ▲▼ for 3seconds to reset the controller.

6. Operation Instruction

- In normal working status, the screen display RT(real time temperature value).
- ①Cooling mode: HC set to C. use cooler as load. When $RT \geq ST$ (temperature set value) + D (difference value), work indicator turn on. output relay connect. Load start to work. When $RT \leq ST$, work indicator turn off, output relay disconnect, load stop working. For example,set 50°F,difference 5°F,cooler work when $RT \geq 55^\circ F$.cooler stop when $RT \leq 50^\circ F$.
- ②Heating mode: HC set to H,use heater as load. When $RT \leq ST-D$, work indicator turn on. output relay connect. load start to work. When $RT \geq ST$, work indicator turn off, output relay disconnect, load stop working. For example,set 50°F,difference 5°F,heater work when $RT \leq 45^\circ F$.heater stop when $RT \geq 50^\circ F$.

ST---temperature setting value .default value is 104°F

Code	explain	Setting Range	Factory Setting
HC	Heating/Cooling	H/C	H
D	Return Difference	0.1-54°F	3.6°F
LS	Set low Limit	-58°F~ST	-58°F
HS	Set high limit	ST~230°F	230°F
PU	Delay Start	0-90minute	0
CA	Temp correction	-18-18°F	0.0°F
A7	Timing stop output	0-999minute	000

More info site:<https://usefulldata.com/fahrenheit-temperature-controller-110v-120v-ketotek/>

Video manual how SET KT1210W-F : <https://www.youtube.com/watch?v=PPK-KvbM-Mo>