

KT1210W Temperature Controller Operating Manual

1. Overview

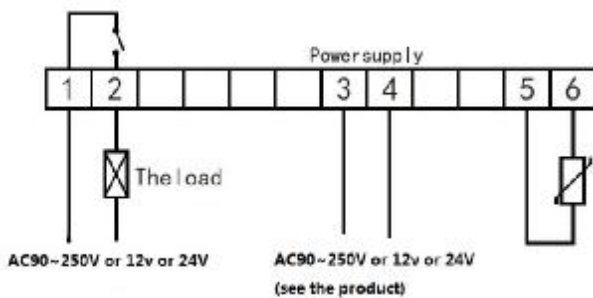
- Wide range working voltage.
- Support delay start and time shutdown.
- Heating or cooling mode can be set.
- All parameters setting can be saved after short circuit.
- high Control precision 0.1 centigrade
- Can be used for domestic freezer, water tanks, refrigerator, industrial chiller, steamer, industrial equipment and other temperature-controlled system.

2. Specifications

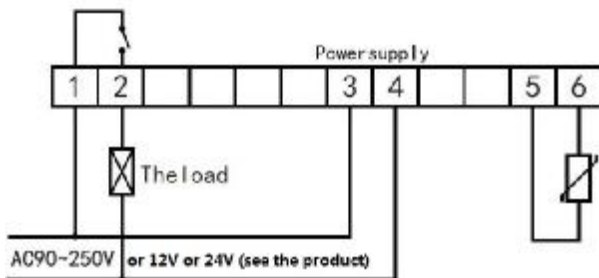
- Power Supply: AC90~250V 50/60HZ/ DC12V/ DC24V
- Temperature control range: -50~110°C
- Difference Set Value: 0.1~30°C
- Resolution Ratio: 0.1°C(-9.9-99.9); 1°C(other range)
- Measurement accuracy: ±0.1°C
- Control accuracy: 0.1°C
- Measuring inputs: NTC(10K0.5%) Waterproof sensor
- Output: Relay Contact 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 load



Connection 2:Same power supply for load



4. Key Instruction

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

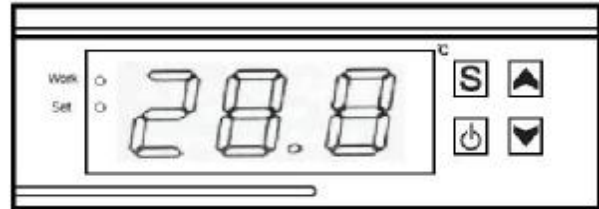
:power on/off, or quit the setting.

: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 led 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 menu code). 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).
- ①**Cooling 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 10 °C ,difference 3 °C ,cooler work when $RT \geq 13^{\circ}C$.cooler stop when $RT \leq 10^{\circ}C$.
- ②**Heating 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 10 °C ,difference 3 °C ,heater work when $RT \leq 7^{\circ}C$.heater stop when $RT \geq 10^{\circ}C$.

Code	explain	Setting Range	Factory Setting
HC	Heating/Cooling	H/C	C
D	Return Difference	0.1-30	2.0
LS	Set low Limit	-50	-50
HS	Set high limit	+110	110
PU	Delay Start	0-90minute	0
CA	Temp correction	-10-10	0.0
A7	Timing stop output	0-999minute	000