

KETOTEK
STC-1000
Temperature
Controller



Ketotek STC-1000 Temperature Controller User Manual

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Ketotek STC-1000 Temperature Controller User Manual



Overview

- Switch between heat and cool.
- Support delay start and temperature calibration.
- Alarm when temp exceeds temperature limit or sensor error
- All parameter settings can be saved after a short circuit.

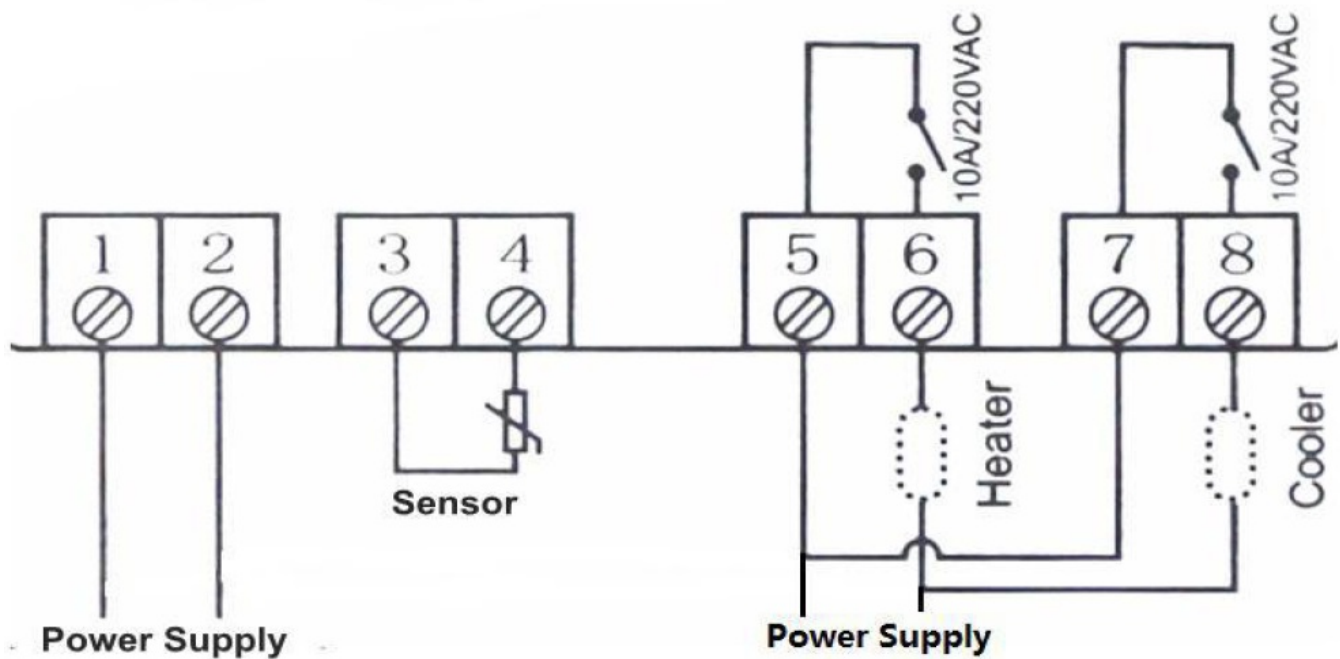
Refrigerating control output delay protection

- Can be used for domestic freezers, water tanks, refrigerators, industrial chillers, steamers, industrial equipment, and other temperature-controlled system.

Specifications

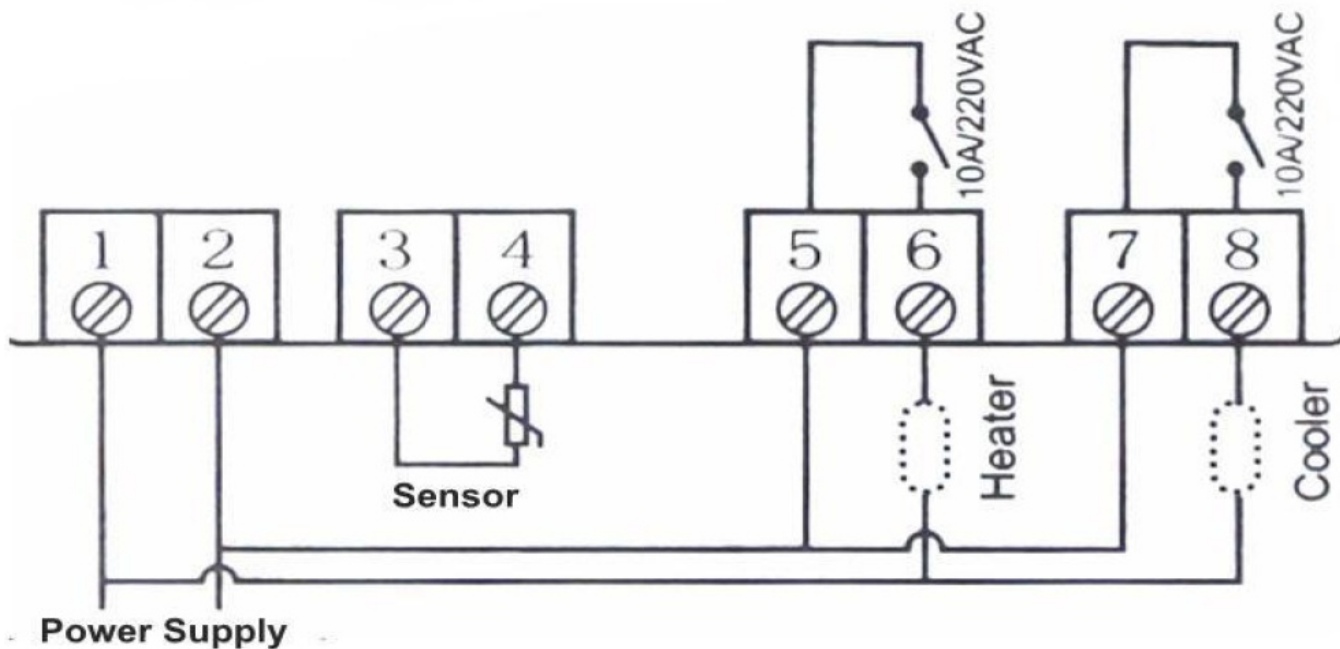
- Power Supply: AC90~250V 50/60HZ/ DC12V/ DC24V
- Temperature control range: -50~99°C
- Difference Set Value: 0.3~10°C
- Accuracy: $\pm 1^{\circ}\text{C}$ (-50°C 70°C) Resolution : 0.1°C
- Sensor error delay: 1 minute
- Measuring input: NTC(10K0.5%) Waterproof sensor 1m
- Relay contact capacity: Cool Heat(10A/250VAC)
- Ambient temperature: -20-70°C , humidity 20% -85%RH
- Size: 75mm(L)*34mm(W)*85mm(Depth)
- Mounting size: 71(L)*29(W)mm
- Power consumption: $\leq 3\text{W}$

Wiring Diagram



Connection 1: Independent power supply for load

Connection 2: Same power supply for load



Key Instruction

Key Operation Instruction

- Check parameter: In normal working status, the screen displays real-time temperature.
- Press. It displays the setting temperature value.press™. It displays the difference value. Press to back to the normal display.

- Set parameter: In normal working status, press S for 3s to enter set parameter mode.
- Press A to switch from F1-F4.(see menu code table).
- Press S to display the parameter set value of the current code. Press and hold S, Press again to adjust the parameter setting value of the current code.
- Press and hold both S and A simultaneously to choose and adjust the parameter value of the current menu value promptly.
- After finishing the setting, press, and release & instantly save the parameter modified value and return to the normal display.
- If no key operation within 30 seconds, the system won't save the modified parameter, and screen back to display the normal temperature.
- The screen displays "Er" if the error appears during parameter saving, and back to normal working status in 3 seconds.

Restore system data: When electrified, the system will check itself, and the screen will display "Er" If the error exists, please press any key at this time, and it restores the default value and enters into normal working mode. It is advised to reset the parameter value under this condition.

Operation Instruction

In normal working status, hold & for seconds to power off, and hold for 3 seconds to power on. In normal working status, the screen displays RT(real-time temperature value). The controller can also switch the working mode between heating and cooling. Refrigerating starts when $RT \geq ST$ (temperature set value) + F2 (difference value), and the refrigerating relay is connected.

1. The cool indicator flashes. It indicates the refrigerating equipment is under compressor delay protect status;
When $RT \leq ST$, the cool indicator light is off, and the refrigerating relay disconnects. The cooler stopped working.
2. Heating starts when $RT \leq ST - F2$, heat indicator light on. Heat relay connects. When $RT \geq ST$, the heat indicator turns off, the heat relay disconnects, heater stops working.

For example, set 10 °C ,difference 3 °C heater work:

- $RT < 7^{\circ}\text{C}$ heater stops when $RT \geq 10^{\circ}\text{C}$. Cooler work when
- $RT \geq 13^{\circ}\text{C}$, Cooler stops when $RT \leq 10^{\circ}\text{C}$.

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References

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