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*PRO*BOTS
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## Probots STC-1000 Temperature Controller

Overview

- Switch between heat and cool.
- Support delay start and temperature calibration.
- Alarm when the temperature exceeds the 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 freezer, water tanks, refrigerator, industrial chiller, steamer, industrial equipment and other temperature-controlled system.

Specifications

- **Power Supply:** AC90-250V 50/60HZ/ DC12 V/ DC24V
- **Temperature control range:** -50-99°C
- **Difference Set Value:** 0.3-10°C
- **Accuracy:** ±1 °C(-S0°C ~70°C) Resolution : 0.1 °C
- **Sensor error delay:** 1 minute
- **Measuring input:** NTC(l0K0.5%) Waterproof sensor lm
- **Relay contact capacity:** Cool Heat(l 0A/250V AC)
- **Ambient temperature:** – 20- 70°C , humidity 20% -85%RH
- **Size:** 75mm(L)*34mm(W)*85mm(Depth)
- **Mounting size:** 7 1 (L)*29(W)mm
- **Power consumption:** 5;3W

Wiring Diagram

- **Connection 1:** Independent power supply for the load

Power Supply · Power Supply
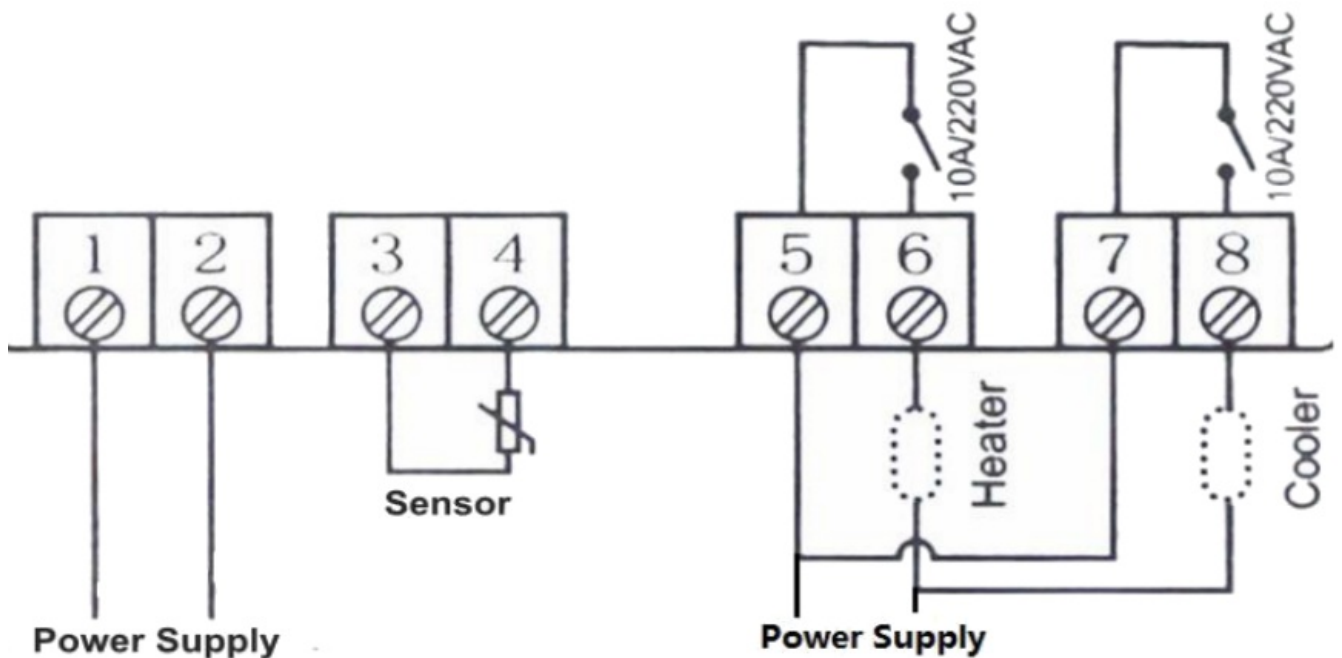
- **Connection 2:** Same power supply for the load

Power Supply ·
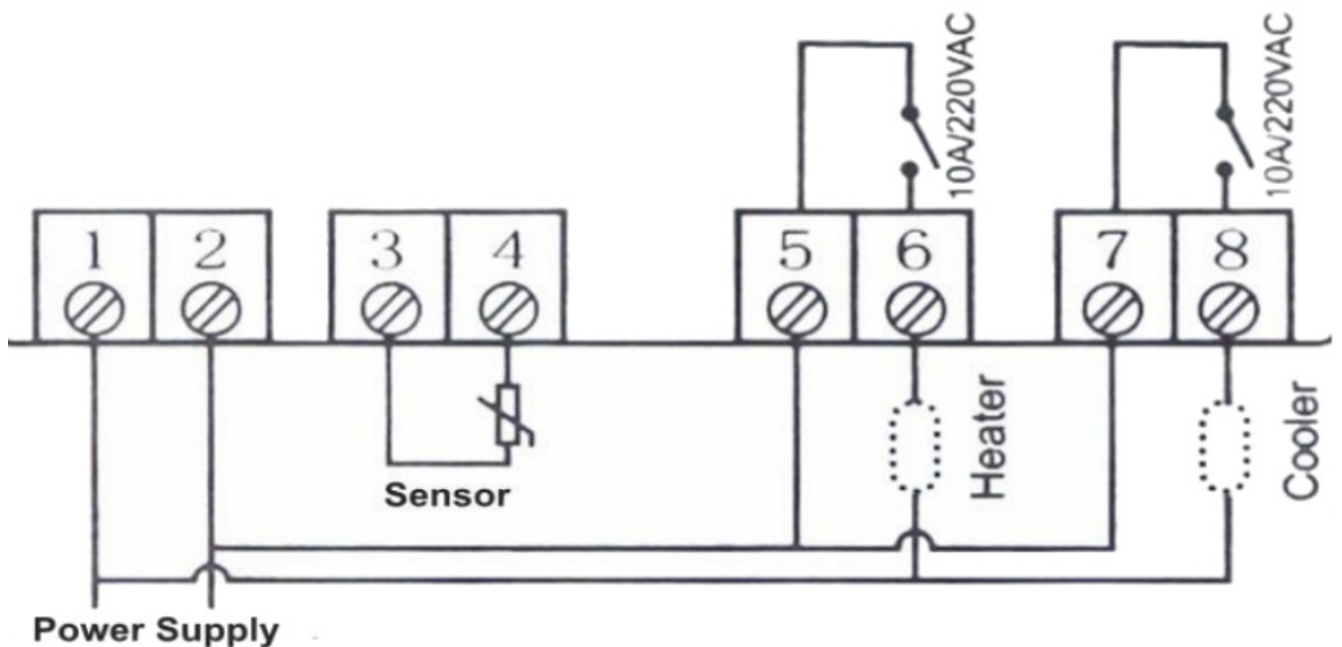
Key Instruction

- **S** **Set key,** Confirm the setting value, Enter, and Set parameter.
- ⏻ **power** on/off, or quit the setting.
- ▲ **increase** value
- ▼ **decrease** value
- **Cool:** cool output indicator
- **Heat:** heat output indicator: :1.:2 BBi
- **Set**: Setting indicator

Indicator	Function	Notes
Heat light	On:Refrigeration starts; Off:Refrigeration stops; Flash:compressor delay	Cool、 Heat indicator light can not be "on" status simultaneously
Cool light	On: heating starts; Off:heating stops	
Set light	On:parameter setting status	

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 a different value.

- Press ⏻ to return to normal display.

- **Set parameter:** In normal working status, press S for 3s to enter set parameter mode. Press ▲ or ▼ 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 ▲ or ▼ again to adjust up and down the parameter setting value of the current code. Press and hold both S and ▲ or ▼ simultaneously to choose and adjust the parameter value of the current menu value promptly.

- After finishing the setting, press and release ⏻ instantly to save the parameter's modified value and return to normal display.

- If no key operation is performed within 30 seconds, the system won't save the

modified parameter, screen will revert to displaying the normal temperature.

- Screen display "Er" if an error appears during parameter saving, and back to normal working status in 3 seconds.
- Restore system data: When electrified, the system will check itself, the screen will display"Er" if an error exists, please press any key at this time, and it will restore the default value and enter normal working mode.
- It is advised to reset the parameter value under this condition.

Operation Instruction

- In normal working status, hold ⏻ for 3 seconds to power off, 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.
  1. Refrigerating starts when RT>ST (temperature set value) + F2 (difference value), the refrigerating relay is connected. cool indicator flashes. It indicates the refrigerating equipment is under compressor delay protect status; When RT<ST, the cool indicator light turns off, refrigerating relay disconnects. The cooler stops working.
  2. Heating starts when ST-F2, the heat indicator light on. Heat relay connect. When R T > ST, the heat indicator turns off, the heat relay disconnects, heater stops working.
- For example, set 10 oc, difference 3 oc , the heater works when RT<70C the heater stops when R T > I °C. Cooler work when 13 OC, C001er stops when RT<IOOC.

Code	Function	Set Range	Default
F1	Temperature set value	-50~99℃	10℃
F2	Return Difference	1~10℃	3℃
F3	Compressor delay time	1~10minute	3 minutes
F4	Temperature calibration value	-10℃~10℃	0℃

Documents / Resources
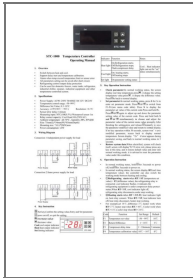
	[Probots STC-1000 Temperature Controller](#) [[pdf](#)] Instruction Manual STC-1000 Temperature Controller, STC-1000, Temperature Controller, Controller

References

- [User Manual](#)

controller, Probots, STC-1000, STC-1000 Temperature Controller, Temperature Controller

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