EN: This Datasheet is presented by the manufacturer.

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STC-3008
Dual display two-way thermostat

Main function

Dual display two-way thermostat, Switch the modes between cool and heat; Control temperature by setting the temperature set value and the difference value; Temperature calibration; Refrigerating control output delay protection; Alarm when temperature exceeds temperature limit or when sensor error.

Specification and size

Front panel size: 75(L)x34.5(W)(mm)
Mounting size: 71(L)x29(W)(mm)
Product size: 75(L)*34. 5(W)x85(D)(mm)
Sensor length: 1m(include theprobe)

Technical parameters

Product Name: Dual display two-way thermostat
Housing material: ABS gray flame retardant molded case
Temperature measuring range:-55℃~120℃
Power supply: 110-220VAC±10%, 50 / 60Hz (or DC12V / DC24V)
Accuracy: ±1 °C
Temperature measurement accuracy: 0.1 °C
Humidity measurement accuracy: 3%
Output control: relay output
Output power: MAX 10A
Sensor: NTC*2

Panel instruction

Display instruction:Six-digit LED+ Minus digit + Status indicator light(Status indicator light(1,2)+Set indicator light(Set))

STC-3008

Key operation instruction

①: Long press △ 3 seconds, the ① group start temperature flash (default 25℃) press △▽ to adjust, long press ▽ 3 seconds, stop the temperature value flash (default 40℃) press △▽ to adjust.

②: Long press △ 3 seconds, the ② group start temperature flash (default 25℃) press △▽ to adjust, long press ▽ 3 seconds, stop the temperature value flash (default 40℃) press △▽ to adjust.
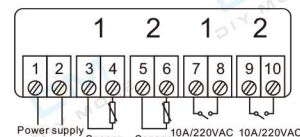
Press △△ button for 3 seconds at the same time to enter the setting mode, display P0, the first group temperature delay, press △▽ to adjust, 0~60 minutes, default 0, after adjustment, press △ since P1, thesecond group temperature Delay, press △▽ to adjust, 0~60 minutes, default 0, after adjustment, press △ since P2, high temperature alarm function, Default 120℃ ,press △▽ to adjust, adjust, press △ to enter P3, low temperature Alarm, default -55℃, press △▽ to adjust, wait for the second to automatically exitpress ▽ ▽ 3seconds to reset to factory settings.

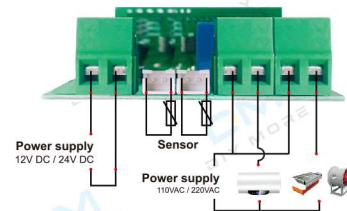### Heating / Cooling setting

CASE 1 : Heating: control the water heater, heat to 65 ° C to stop, the temperature drops back to 50 ° C and start heating again
Step 1: heating mode, starting temperature <stop temperature
Step 2: Press and hold the"△"button to start the temperature flashing. Use"△▽"to set the starting temperature to 50 °C.
Step 3: long press"▽" button 3 seconds to stop the temperature flashing. Use"△▽"to set the stop temperature to 65°C. The setting is completed!

CASE 2 : Cooling: the fan is ventilated to 26 ° C to stop, the temperature is raised to 30 ° C and the ventilation is started again.
The first step: cooling mode, starting temperature > stop temperature
Step 2: Press and hold the"△"button to start the temperature flashing. Use"△▽"to set the starting temperature to 30 °C.
Step 3:long press"▽" button 3 seconds to stop the temperature flashing.Use"△▽"to set the stop temperature to 26°C. The setting is completed!
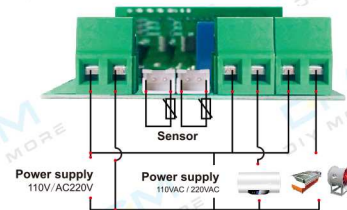

Wiring diagram

Connection 1: Independent power supply for load

Power supply
12V DC / 24V DC

Power supply
110VAC / 220VAC

Connection 2: Same power supply for load

Power supply
110V /AC220V

Power supply
110VAC / 220VAC

Note: There is no voltage output from the output terminal of the thermostat, So the device needs to be connected to a power supply

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Indicator light status instruction

Indicator light	Function	Note
Red light	① First group display	Cool,Heat indicator light can not be"on" status simultaneously
Blue light	② Second group display	
Set indicator light	On:parameter setting status	

Error description

   Alarm when sensor error: Controller activate the sensor error alarm mode when sensor open circuit or short circuit, all the running status is closed off with the buzzer alarms, and the nixie tube displays"EE", press any key can cancel alarm sound,system back to display the normal temperature when the error and the fault is cleared.
   Alarm when the measuring temperature exceeds temperature measuring range: Controller activates the error alarm function when the measuring temperature exceeds the temperature measuring range, all the running status is closed off with the buzzer alarms, and the nixie tube displays"HH", Press any key can cancel alarm sound, system back to display the normal working mode when the temperature restore to normal measuring range.

Safety Regulations

★ Danger:
1.Strictly distinguish the sensor down-lead, power wire and output relay interface from one another, and prohibit wrong connections or overloading the relay
2. Dangers: Prohibit connecting the wire terminals without electricity cut-off
★ Warning:
   Prohibit using the machine under the environment of over damp, high temp., strong electromagnetism interference or strong corrosion.
★ Notice:
   1. The power supply should conform to the voltage value indicated in the instruction.
   2. To avoid the interference, the sensor down-lead and power wire should be kept a proper distance.