

# STC-100A Operation Instructions

## Main functions:

Switch the mode between heating and refrigerating; controlling the temperature by adjusting both the temperature setting value and difference value; Delay protection when refrigerating and heating starts; Limit the temperature setting range; Calibrate the temperature; Alarm when sensor error.

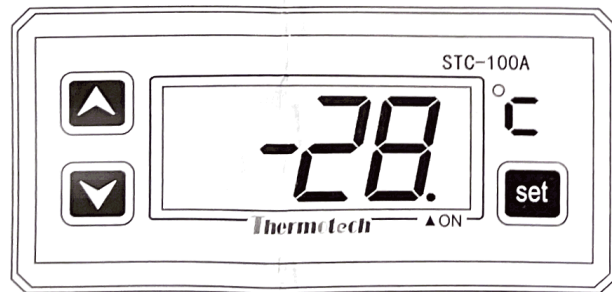
## Size:

- Front panel size: 77 (L) × 34.5 (W) mm
- Installing hole size: 71 (L) × 29 (W) mm
- Product size: 77 (L) × 34.5 (W) × 62 (D) mm
- Sensor wire length: 2 meters (including the probe)

## Technical Parameters:

- Power supply: 220VAC+10%/-15%, 50/60Hz
- Power consumption: < 3W
- Temperature measuring range: -40°C ~ +99°C
- Temperature controlling range: -40°C ~ +99°C
- Resolution: 1 °C
- Accuracy: ±1 °C ± 0.5 digit
- Relay output capacity: 10A(0.5HP)/220VAC
- Delay time when sensor error: 1 min
- Sensor type: NTC sensor
- Safety level of the front panel: IP54
- Operating temperature: 0°C ~ + 60°C
- Storage temperature: -30°C ~ +75°C
- Relative humidity: +20% ~ +85%(No condensate)

## Operation and display panel:



Display instruction: Two-digit LED displays the temperature value and other information.

Key operation instruction: ▲ key: up key, ▼ key: down key;  
"set" key: to set the parameter value.

## Indicator light status instruction:

Indicator light	Code	Status	Function
Working status indicator light	▲ ON	Flash	Control output delay
Working status indicator light	▲ ON	Always on	Control output start up

## Operation instruction:

1. The way to adjust temperature setting value:

When the controller under normal working status, press "set" key to display the current temperature setting value, press the ▲ key or ▼ key to increase or decrease the temperature setting value, if no key operation within 4 seconds, system will save the modified parameter value and back to normal working status.

Note: LED displays "Er" if there is an error during the memory process, and system back to normal display status after 3 seconds.

2. The way to modify the parameter setting value:

Under controller normal working status, press and hold "set" key for more than 4 seconds to enter into parameter modifying mode, and LED displays the first parameter item code: "HC". Pressing ▲ key or ▼ key can choose the desiring parameter code, then press "set" key to confirm the desired parameter item, by pressing both "set" and ▲ key or ▼ key, LED accordingly displays the increase or decrease the parameter value. If no key operation within 4 seconds, system will save the modified parameter value and back to normal display status.

Note: LED displays "Er" if there is an error during the data memory process, and system back to normal display status after 3 seconds.

3. The way to restore the system data:

After electrified, controller checks the parameter setting. LED displays "Er" when error exits, then pressing any key will restore the default parameter setting, and work normally. It is advised to reset the parameter under this situation.

4. Operating chart:

