

# CT-700 Operation and maintenance instructions

CT-700 Timing electric thermostat size : 194 X 123 X 97 mm



- Power supply : 110/240 VAC 50/60 Hz
- Power consumption : <2VA
- Working temperature : 5~50°C < 85%RH (No fog)
- Power failure backup battery : AAA(Salty No. 4)1.5V X 2 , Battery standby for about 150 hours
- Relay contact output : 25A240VAC(Resistive load)
- Temperature bar can test and display temperature : 5~100°C
- Daily circulating electric thermostat (power off operation)
- Applicable to electric energy, solar water heaters, daily preheating equipment

## 1. Instructions

- 1.1 After the installation is complete, plug in the power supply. At this time, the seven-segment display and LED indicators are all on, indicating that the controller is normal.
- 1.2 After three seconds, the display shows the current temperature and the controller starts to work.
- 1.3 Parameter setting : press the ▲ key for three seconds, the display shows the first parameter setting code SEt, press the ▲ key or the ▼ key  
The factory setting value appears, at this time you can press the ▲ or ▼ key again to set the parameter, the new setting value will be recorded record. Each parameter will automatically switch and appear after three seconds until the parameter setting is exited.
- 1.4 Press and hold the ▼ key for five seconds to start the forced timing, the forced light will light up, and the heater will run immediately (at this time the operating temperature has been reached).
- 1.5 After starting the mandatory timer, press and hold the ▼ key for five seconds to turn off the mandatory timer.
- 1.6 At oFF, the mandatory light will flash to indicate.
- 1.7 When the heater is running, the heating indicator lights up to indicate.
- 1.8 When on and oFF are 0.0 hours at the same time, the timing function is invalid and the heater will always run (only the temperature control function).
- 1.9 When the lock function is set to Lon, it can only display parameters, but cannot adjust parameters.
- 1.10 When the controller is abnormal, the display flashes to show the fault code.
- 1.11 Relevant time setting : The minimum scale is 10 minutes (e.g. 13.5 represents 1: 50 pm)

## 2. Fault display code

- 2.1 OP : The temperature sensor is open or the temperature is lower than 5°C.
- 2.2 SH : The temperature sensor is open or the temperature is higher than 100°C.

## 3. Parameter Description

- 3.1 Temperature setting : The highest temperature the water heater wants to run.
- 3.2 Temperature difference setting : When the water heater stops running, the temperature of the water heater drops to (temperature setting value\_ temperature difference setting value) and the heater runs again.
- 3.3 Temperature correction : When the controller is used for a long time, the related parts will crack, causing the difference between the sensed temperature and the actual temperature. This value can be set to compensate.

※ Note : The first time the controller is turned on, the controller will perform a full test, and the seven-segment display and LEDs will all light up. During the full test phase, you can press any key to test whether the relay has output.



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