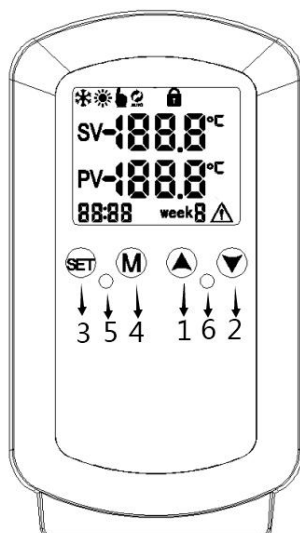


Specification

Temperature Control Range	1~70 °C
Temperature Resolution	0.5 °C
Temperature Accuracy	±1°C (-50 ~ 99°C)
Temperature Control Mode	On/Off Control, Heating and Cooling
Input Power	220VAC, 50Hz/60Hz
Temperature Control Output	Max. 16A, 220V AC
Buzzer Alarm	High and Low Temperature Alarm
Sensor Type	NTC sensor (Including)
Sensor Length	2m / 6.56ft
Relay Contact Capacity	Cooling (16A, 220VAC)
	Heating (16A, 220VAC)
Input Power Cable Length	50cm
Output Power Cable Length	100cm
Dimension	Main Body: 140x68x33mm (5.5x2.7x1.3 inch) Socket (EU Version): 135x54x40mm
Ambient Temperature	0~ 50 °C
Storage	Temperature -10~ 60 °C
Humidity 20~85% (No Condensate)	
Warranty	1 Year

Schematic diagram

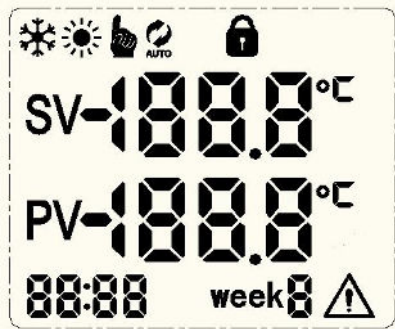


Button

No	Symbols	Function description
1		Increase Key
2		Decrease Key Long press to Lock/Unlock
3		Setting key Long press for 3 second, enter Advance
4		Clock Short press setting clock

		Long press to setting Program value
5	Power indicator(green)	Light on indicates power on, light off indicates power off
6	Load output indicator(red)	Light on indicates output relay is connected,light off indicates output relay is disconnected

Display and function description






No	symbols	represent
1		Heating mode
2		Cooling mode
3		Manual Mode
4		Programmable mode
5		Temporary manual mode: Set the temperature in the programming mode, the thermostat will run to the next period according to the temporarily set temperature, and then return to the programming mode.
6		Lock/Unlock
7	PV	Actuator temperature
8	SV	Setting temperature
9		Clock
10	week 0	Week
11		Alarm symbol, when the product alarms, this icon flashes.

Advanced Setting





Long press for 3~5s , enter advance Setting, Short press to change item, Flashing bullet

indicates selected. Press or to change value, Automatically save and exit 10 seconds after

setting

Display symbol	Setting Options	Data Setting Function	Factory Default
A1	Start-up return difference Δt	0.5~2.5°C	1
A2	Temperature correction range	-9°C~9°C	-1
A3	Cooling and heating mode switch	00=cooling 01=heating	01
A4	Set the upper limit of temperature	20~70°C	35°C
A5	Set the lower limit of temperature	1°C~10°C	5°C
A6	Alarm setting	00: Cancel 01: Display Alarm 02: Display alarm + buzzer alarm	02
A7	Programmable	0: 5+2 1: 6+1 2: 7	0
A8	Mode Select	0:Manual; 1:programmable	0
A9	Return to factory setting	88: Just display,no any meaning Press  and  change to 00, short press  , the value will return to factory setting	88

Control program description

1. Temperature setting : Press  or , The () press  or  to change value , After finish , If the button is not operated for 5 seconds, the settings will be saved and the original interface will be returned.

2. Heating Mode: When real temperature $PV \leq$ (Setting temperature $SV + \text{Start-up return difference } \Delta t$), load relay output, load indicator light is on; when actual temperature $PV \geq$ (set temperature $SV + \text{start-up return difference value } \Delta t$), load relay is disconnected, load indicator light is off, set temperature SV default value is 23 °C, the default value of start-up difference Δt is 1°C.





3.Cooling mode: When the actual temperature $PV \geq$ (set temperature $SV + \text{start return difference } \Delta t$), the load relay outputs, and the load indicator light is on; when the actual temperature $PV \leq$ (set temperature $SV + \text{start return difference } \Delta t$), the load relay is disconnected, and the load indicator light Extinct.

4.Special Alarm: When an alarm occurs, the buzzer will sound: (when and only when the advanced option A7 alarm parameter is set to 02, the buzzer alarm is effective)

①.Heating mode high temperature alarm (HI): the detection temperature is greater than or equal to the set temperature $SV + 3^\circ\text{C}$, the PV will switch to display HI and the detection temperature, and alarm.

②.Low temperature alarm (LO) in cooling mode: detection temperature \leq set temperature $SV - 3^\circ\text{C}$, switch display LO and detection temperature at PV , and alarm.

5.Programmable value setting

There are 5+2 (default), 6+1, 7 days (the same every day) six-time programming mode for users to choose, and select the programming mode in the advanced options.On Power On, Long press  for 3-5s enter programmable value setting, After that Short press  to change hours, minutes, and temperature setting options for working days and rest days,pres  or  to adjust value.

When 5+2 is selected, WEEK5 means working day parameter setting, WEEK2 means rest day parameter display;

When 6+1 is selected, WEEK6 means working day parameter setting, WEEK1 means rest day parameter setting;

When selecting 7, WEEK7 represents the working day parameter setting.

After the setting is completed, the parameters will be automatically saved and exit after keeping the interface for 10 seconds.

Time Period Setting (Working day and Weekend default value is same)

1 (PV Display)		2 (PV Display)		3 (PV Display)		4 (PV Display)		5 (PV Display)		6 (PV Display)	
Wake up		Outdoor		Home		Outdoor		Home		Sleep	
6: 00	20°C	8: 00	20°C	11: 30	20°C	13: 30	20°C	17: 00	20°C	22: 00	20°C

Common faults and handling

Faults	proof-of-cause	Solution
E1	No. 1 sensor failure	Check if the sensor is connected or replace the sensor
HI	Temperature exceeds setting temperature limit	Check whether the sensor is in the correct position and whether the temperature is detected accurately
LO	Temperature exceeds low temperature limit or sensor failure	Check whether the sensor is in the correct position and whether the temperature is detected accurately