Heating Thermostat Manual

Application

The ME82C smart thermostat is used to control heating materials in electric heating systems or valves in water heating systems.
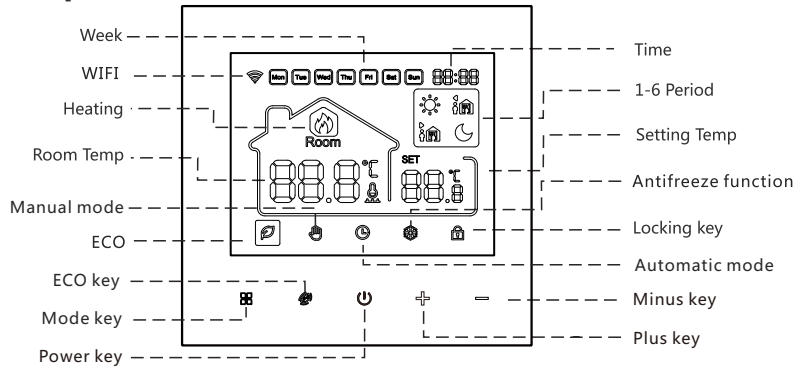
Technical indicators

1.Power supply:100~240VAC 50/60HZ   2. Room temperature control range: 5~70°C

3.Maximum load current:16A/250VAC 3A/250VAC   4.Temperature display accuracy:0.5°C

5.Working environment temperature: 0°C~50°C   6.Product size: 86*86*40MM

7.Storage environment temperature:-10 °C ~ 60 °C   8.WiFi frequency:2.400GHZ~2.483GHZ

9.WiFi communication protocol: IP/TCP, MQTT

10. Product design implementation standard: GB14536.1-2011 IEC60730-1:2011

IEC60730-2-9:2011 EN15500:2011

Product features

1. Tempered color large screen display.   2. Power down permanent memory function.

3. Touch button operation.   4. Temperature correction function.

5. A variety of temperature control modes are optional.

Icon description :

User Operation

⏻ Power Key : Press the power button briefly to power on/off.

▦ Mode Key : In the power-on state, press the"▦"to switch the working mode (screen display "✋"indicates manual mode, display"🕒"indicates automatic mode); Long press the "▦" for 5 seconds to enter the current time adjustment, press the "▦" to switch hours/minutes/week, press the "+/−" to modify the current hour/minutes/week, and press the "⏻" to confirm exit.

+/− plus /minus key : In the power-on state, press the "+/−" to adjust the set temperature. Press and hold the "+/−" at the same time for 5 seconds to turn on the child lock function.

✎ ECO Key : In the power-on state, press the "✎" to start the ECO function, and press any key to exit this function.

Programming: 6 –event time and temperature

In the shutdown state, long press "▦ "key and the " ✎ " key for 5 seconds to enter programming mode. you can switch parameters by mode key. After entering the programming mode , press mode key to adjust " hour" ,then press mode key to adjust "minute".Press the mode key again to adjust temperature.

1 .Wake-up   2. Leave   3 Return(am)   4.Leave(pm)   5.Return(pm)   6.Sleep

Key	Event		Symbol	Time	+ −	Default value	+ −
▦	Week day	01	☼	06:00	Set time	20℃	Set temperature
		02	🏠	08:00		16℃	
		03	🏢	11:30		20℃	
		04	🏢	12:30		16℃	
		05	🏠	17:00		20℃	
		06	☾	22:00		16℃	
	Weekend	01	☼	08:00		20℃	
		02	☾	23:00		16℃	

Parameter default setting(qualified person preferred)
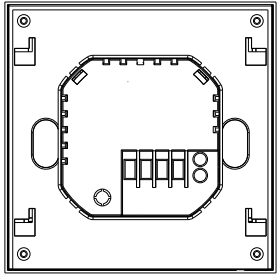
In the shutdown state, long press"▦ "and"−"at the same time to enter the mode of advanced setting immediately when thermostat is turned off. The following functions can be chosen by"▦"key.

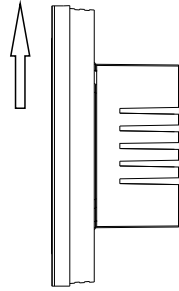| Symbol	Parameters	Default parameters	+ or −
1	Rdj Temperature calibration	0	Adjust measured temperature range:-9~9℃
2	2SER Sensor mode	IN	IN: Single room temperature mode control OU: Single floor temperature mode control AL: Dual-temperature dual-control mode control: room temperature control is the mainstay, and floor temperature control is supplemented
3	3L IF Overheating protection	60℃	Adjust range:5℃~60℃
4	4d IF Switching differential	1	Adjust switching differential range:1~6 (0.5~3℃)
5	SLFP Anti-frozen function	ON	Turn on(01)/off(00) Anti-frozen function
6	6PrG Kinds of periods of time mode	01	OF : Close 01:5+2 day mode 02:6+1 day mode 03:7 +0day mode
7	7UTL Max . temperature	40℃	Adjust range:20℃~70℃
8	8LTL Set the lower limit of temperature	10℃	Adjust range:5℃~20℃
9	9LIG Standby backlight brightness	1	0: Total darkness 1: 20% 2: 50% 3: Full brightness
10	RECO Eco temperature setting	16℃	Setting range: 10~20°C
11	bESC Load selection	1	1: Low(≤7A) 2: Medium(7A~12A) 3: High(12A~16A)
12	CHEC Reset to factory settings	–	Press"+"and hold for 5s, all parameters will be reset

Anti-frozen function

In the state of shutdown, the thermostat will turn on the heating device automatically When the room temperature is below 5℃. when the room temperature is above 7℃, the thermostat will turn off the heating device automatically.
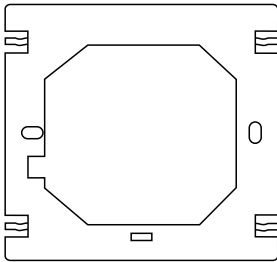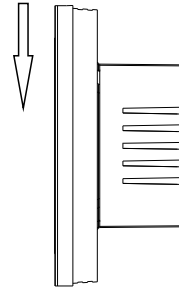
Mounting steps

1.Connect the power supply box according to the wiring diagram.
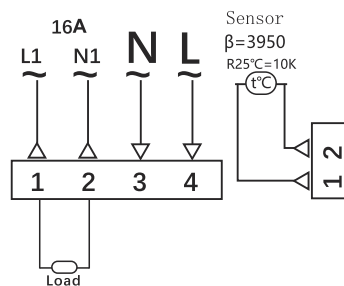

2.Push the panel up and take down the panel.

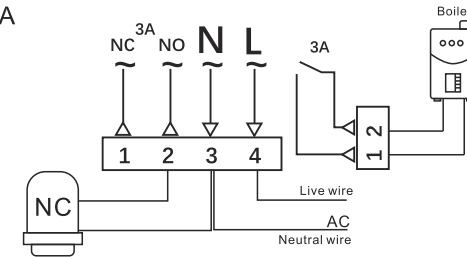3.Install the fixed plate of thermostat in electrical connection box with screws.

4.Make the panel buckle to the fixed plate and push it down.
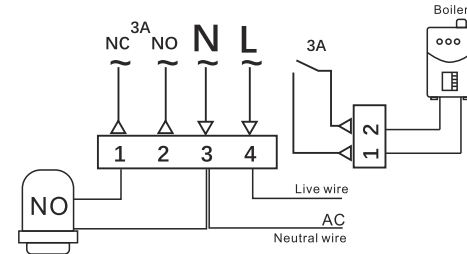
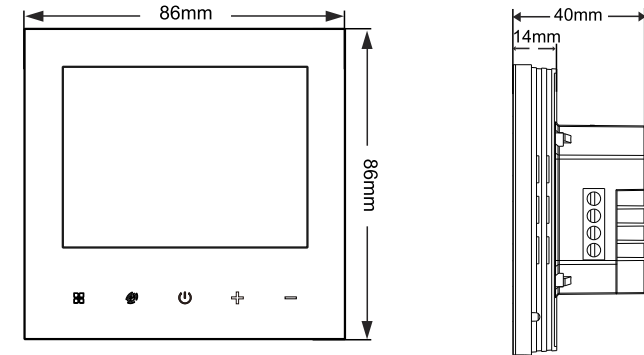## Wiring diagram

Electric Floor Heating 16A

Water heating 3A

Wiring diagram of plumbing normally closed valve

Wiring diagram of plumbing normally open valve

Dimension

86mm

86mm

40mm

14mm

Common failure handling

Failure	Handling
Crash	1.Check the power supply wiring is correct or not . 2.Check the power key .
LCD display garbled	1.The shell is deformed after installation,can be reinstalled.
Display normal No output	1. Check whether the wiring between the MPU and the power board is damaged. 2.Check whether the null line of live line is connected wrong.
Remote failure	Check if the remote control battery has enough power , if not replace the battery.
Temperature display error	Adjust the panel temperature display by the first option in the Advanced tab.
Sensor failure	Check the sensor for damage Er1: Built-in sensor disconnected or fault with it. Er2 External sensor disconnected or fault with it.

1)Thermostat networking steps:

Press and hold the panel plus and minus keys at the same time in the shutdown state, when the buzzer rings the screen shows full display, the screen is on, the WiFi icon" 🛜 " is flashing, at this time the control panel has entered the network state, and the WiFi icon shows normal means that the connection is successful.
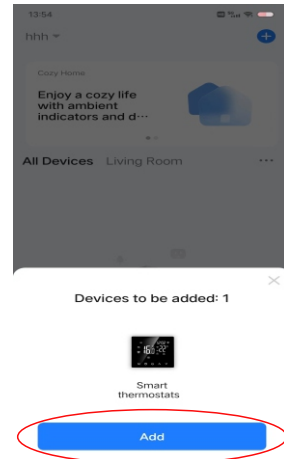
2)Mobile phone networking steps

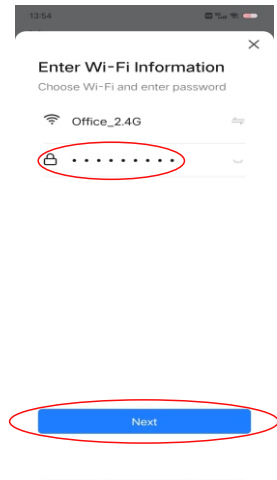Before configuring WIFI , please make sure your phone is connected to 2.4GHz WIFI and Bluetooth.

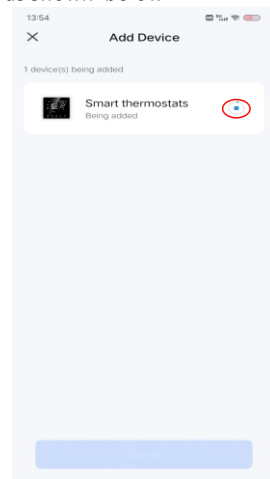1. Use your mobile phone to scan the QR code below to download the"Smart Life" app.

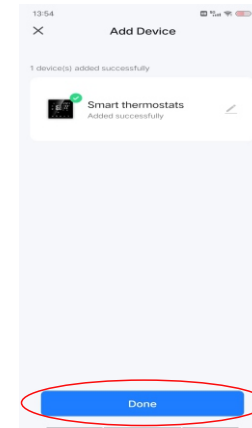2.Open the" Smart Life " APP, display the device waiting to be added , click "add", as shown below.

3. After entering the WIFI password, press"Next" as shown below.

4.The phone enters the device search and connection mode, this icon " 🔵 " in the search as shown below

5.The mobile device will be successfully connected and the icon " ✅ " will be displayed, click "Done" to enter the control interface, as shown in the figure below.
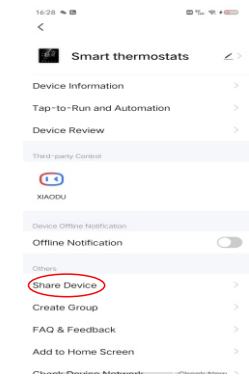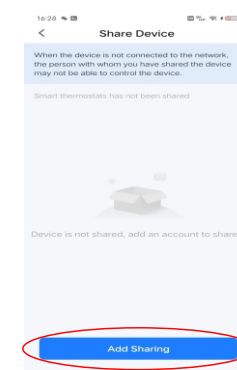
3)Device sharing instructions:
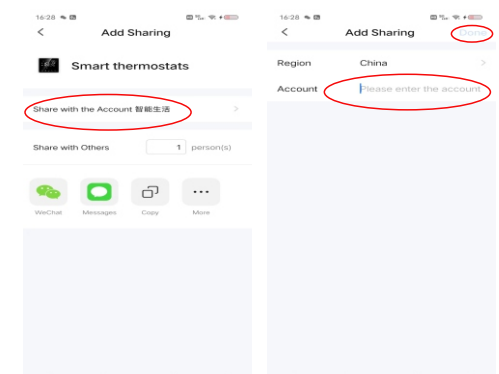
1. Click" ✎ "on the APP control interface,as shown below.

2. Click "Share Device",as shown below.

3. Click"Add Sharing",as shown below.

4.After entering the account number click "Done" as shown below.

4)Thermostat and mobile phone Exit the network:

Press and hold the panel plus and minus keys at the same time in the shutdown state, when the buzzer rings the screen display full display and then turn on, at this time the control panel has entered the network withdrawal state(also the network configuration state). The screen wifi icon " 🛜 " is flashing.