

# C17 TUYA WIFI HEATING THERMOSTAT

## Instructions

### [ General ]

- The Smart Home WiFi thermostat allows the control of water Floor heating or electric floor heating via smart phone app.
- Heating Thermostat with weekly programming adopts the latest single-chip computer control technology.
- It has the high reliability and powerful anti-jamming. It can realization energy-saving and comfortable living environment. The application is the electric heating equipment and Water heating system of electric heating or actuator control. According to the preset temperature, the thermostat will automatically start and stop the controlled object (valve, floor heating, the heating wall, electric heater etc).
- The wall thermostat can be operated manually or automatically.
- The Automatic mode allows the user to switch up to 4-time per day per week Day to
- Using flame resistance material, the heating equipment is safe and reliable.
- Its appearance is stylish and its mirror screen would be very easy to clean.
- Keypad locking function is designed to prevent the children from misusing.
- Capacitive touch screen technology and Mobile phone remote control.
- Iron plate installation, do not need to split the thermostat, easy to install.

### [ Technical parameters ]

- Power Supply: 85-250VAC 50/60 Hz
- Internal sensor measurement range: 0 - 40°C.  
Setting range: 5 - 35°C (factory settings: 25°C)
- Inside sensor: NTC B=3380 10k @25degrees Celsius
- Display resolution: 0.1°C Setting Unit: 0.5°C/step
- The maximum switch power: 3A [C17W.GH1]
- The maximum switch power: 16A [C17W.GH3P]
- External sensor measurement range: 0 - 99°C.  
Setting range: 5 - 95°C (factory settings: 50°C)
- Extra sensor: NTC B=3380 10k @25 degrees Celsius, length=3 meters

### [ Prerequisite and How to add thermostat on your phone ]

The smart phone is connected to the WiFi. The connection between router and Smart Home WiFi wall thermostat can be set up in the app.  
Please note: The Smart Home WiFi wall thermostat 3A/16A supports only WiFi variants with 2.4 GHz.

#### Download and open the application:

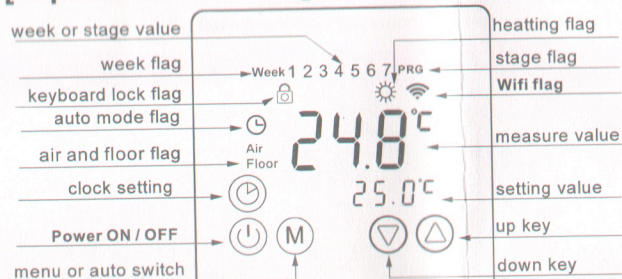
- 1 search the APP store or Google play store for the "Smart Life" APP, download and install "Smart life" on your phone.
- 2 when you firstly download the app, press \* create a new account \* to sign up. If you already have an account, press \* use existing account \* button to login.

#### Start up device:

1. Turn off the device with the button.
2. Keep the key pressed until "NET" is displayed.
3. Open APP "Smart life" on your phone and press on the "+" button at the top right of the display. scan QR code in the picture.
4. You will find a Thermostat and require add to Smart Life.
5. Fill the user name and password to access router and select the SmartLife-XXXX or SL-XXXX hotspot, the APP will setup the thermostat on the phone.
6. Installation is finished, you can control thermostat by your phone.



### [ Operation Guide ]



### [ On and off ]

Press keys you can turn on or turn off the thermostat. The display should be as shown aside when turning off.



### [ Children Lock ]

Press key for 2 seconds at the same time, the controller keypad would be locked. Screen would show .  
Press the at the same time for 2 seconds under the locked status, keypad would be unlocked.

### [ System time ]

Keep pressing for 5 seconds, it will enter into the time setting. The current revisable object will flash and display. Press and choose time you want to revise (week / hour / minute). Press or to modify the current setting. If you need to modify the previous parameters, please press key. After modifying minutes you can press to exit the system clock settings.  
When the Internet is active, the system time will be synchronized automatically.

### [ Display different kinds of temperature ]

The thermostat works for temperature control in mode **IN** and mode **ALL**. The main screen shows air temperature or room temperature when AIR icon lit, the vice-monitor would set temperature every 5 seconds and alternatively display current time.

When the thermostat is in **OUT** mode, the **FLOOR** icon will be lit. The main screen will display floor temperature or external sensor location.

When the temperature is in mode **ALL**, press and can detect floor temperature or external sensor location, and the **FLOOR** icon will be lit. The main screen will automatically display air temperature 5 seconds later after the **AIR** icon lit.

### [ Temperature control mode ]

According to the sensor setting of thermostat, there are three different control modes, enter the advance function to set.  
**Internal control (IN):** Only enable built-in sensor temperature measurement, the temperature control is based on the built-in temperature sensor. It is suitable for the detection of air temperature or the room temperature.

**External control (OUT):** Only enable external sensor to temperature measurement, the temperature control is based on the external sensor. It is suitable for the detection of the heating body temperature.

**Dual temperature control (ALL):** Temperature control is based on the built-in temperature sensor and an external temperature sensor (over-temperature protection). It is suitable for the detection of room temperature and heating body whether over temperature monitoring. If the external sensor is over temperature, thermostat will shuts down the heater.

### [ Automatic/manual switch ]

Press to choose manual or automatic mode.

**Manual mode:** System will control temperature under the set value without any scheduled change.

**Automatic mode:** System would control temperature according to the preset temperature values in different time.

The icon will lit, which means that the system is running under automatic mode.

The WEEK flag appears on the display and the current weekday will be displayed.

### [ Setting the heating profiles ]

You have the possibility to define 4-point switching times every day of the week.

PX switching point consists of time and set point temperature.

Therefore, you can adjust the heating time according to your personal needs.

To start programming, press the key continuously for 5 seconds in the enabled state.

The device switches to the range for setting the heating profile. **dAy** appears on the display.

The date field flashes and the heating profile can be set for a specific day or several days at the same time.

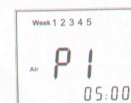
With the or keys you can select a weekday (1)(2)(3)(4)(5)(6)(7) or Monday to Friday (12345) or Saturday and Sunday (67) or Monday to Sunday (1234567).

After you have made your selection, press the button to edit the switching times. Press or to set the time or temperature value. Press to switch between the different switching times.

P1 - P4 or time and temperature values until your settings are complete.

The setup process will be automatically terminated once all settings have been completed.

To edit another day you must repeat the procedure accordingly





Warning: System setting is used to set some important parameters of the system, that's only for professionals. Do not make any improper modification. The item already been debugged and tested by professionals, there is no need to reset.

Display	Set the content	Adjustment range	The default value
<b>bL</b>	Backlighting status	On: Always on OFF: Auto turn off after 5sec	OFF
	Backlight lighting mode, can be set according to personal preference		
<b>SAt</b>	Status at re-power	OFF: off status at every time On: the same as previous,	On
	Used to control the power state of the		
<b>FP</b>	Antifreeze	On: Enable / OFF: Disable	On
	Low temperature protection, what is suitable for the water system To prevent the pipe from freezing at low temperature.		
<b>CAL</b>	temperature correction	-5℃ ~ 5℃	0℃
	Used to correct the sensor value, screen would show the value needed to be revised when adjusting; the revised value will be displayed after 3 seconds.		
<b>dt 0</b>	Internal sensor hysteresis	0.5-5℃	1℃
	Built-in temperature sensor hysteresis		
<b>dt 1</b>	External sensor hysteresis	0.5-5℃	3℃
	External temperature sensor hysteresis		
<b>SEn</b>	Sensor or temperature control mode	IN: Built-in    OUT: External ALL: Dual temperature control	IN
	IN: internal control, room sensor    Out: external control, floor sensor    ALL: double temperature double control, the internal room temperature sensor, external sensor overheating protecting		
<b>LOP</b>	External temperature sensor limit	40-80℃	45℃
	The sensor is set to ALL, the temperature limit external sensor value		
<b>dEF</b>	Restore factory settings	Restore factory settings	To restore the default

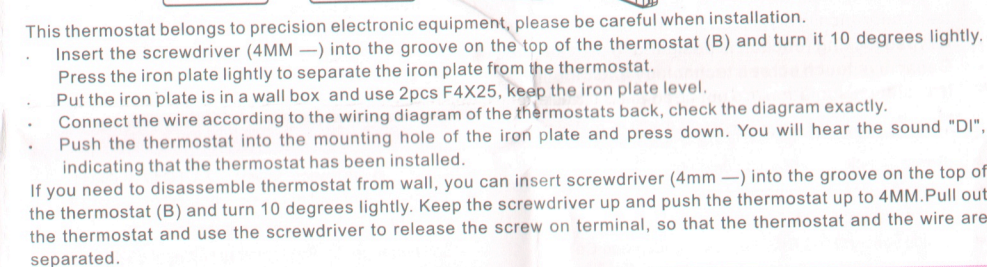
<p><u>1. Fault phenomenon : There is no display</u></p> <ol style="list-style-type: none"> <li>1. Power supply system is having problems or power is supplied incorrectly, please check if the wire is normal</li> <li>2. If the connection is not right, please wired up as the wiring diagram on the back side.</li> <li>3. Actual temperature is too low, please note the thermostat temperature range. If the temperature is lower than -5 V, the unit cannot normally display.</li> <li>4. Power supply box and the motherboard Coupling is not connected correctly, please connect correctly.</li> <li>5. Power supply box and the motherboard Coupling are opposite inserted, please mind the direction</li> <li>6. Power supply box and the motherboard Coupling is broken, please don't overexert. Coupling length is 6cm, the installation must be careful. If damaged, no warranty and replacement</li> </ol> <p><u>2. Fault phenomenon : Display rupture</u></p> <p>Reason solution: Display encounters hard objects or sudden force, no replacement and warranty</p> <p><u>3. Fault phenomenon : Display a black screen</u></p> <p>If the display surface temperature is too high, please note whether there is heater nearby, if so please remove.</p> <p><u>4. Fault phenomenon : Display ERO or Er1</u></p> <p>ERO: If built-in sensor is abnormal, please pay attention to whether the small black dot in temperature sensing window was damaged during removal</p> <p>ER1: The system is set in the dual temperature control (ALL) mode, or it is not connected with an external sensor, or the external sensor is abnormal.</p> <p><u>5. Fault phenomenon : No pen on LCD</u></p> <p>Please check whether the iron plate is deformation when installation. If it is deformation, please correct</p> <p><u>6. Fault phenomenon : No back light</u></p> <p>Reason solution: Please check whether back light lamp connection is broken when removing in the panel.</p>	<p>Reason &amp; solution:</p>
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Reason solution: 1. The ON is set in the system menu bl 2. If it is damaged, please replace it.

**Reason solution:** 1. The thermostat should be installed at ventilated place. It can not be installed at the place in direct sunshine or nearby the heater 2. Back connection screw is not locked, causing terminal serious fever

Fault phenomenon : Display 0 degrees  
Reason solution: It is normal if thermostat display 0 degrees when the actual environment is below 0 degrees.

## [ Installation guide ]



The Smart Home WIFI wall thermostat controls directly or connected via a connecting unit thermal actuators for water-operated floor heating systems. The WIFI controller can also regulate electric floor heating, where the electric heater pad is in the floor.

The device is for \* fixed installation, \* recording of the actual temperature, \* setting the target temperature, regulation of the actual temperature by controlling the actuators of water-heated floor heaters or the control of the electric floor heating the connection of a floor sensor for electric floor heating

Any other use, modification or conversion shall be expressly prohibited and shall lead to hazards for which the manufacturer is not liable.

In order to avoid accidents involving personal safety and material, preventive measures should be taken.

- Only authorized professionals are allowed to open the equipment without power.
- Turn off the power supply before opening and prevent accidental reactivation.
- Use the device only if the device is not damaged.
- Meet the equipment performance limits and environmental conditions.
- No person (including children) with impaired physical, sensory or mental abilities, lack of experience and knowledge is allowed to use or operate this equipment. Where appropriate, the use of the product must be supervised or directed by the person responsible for its safety.
- Make sure no children play with the product. Look after the children if necessary.
- In case of emergency, turn off power supply the entire smart home WiFi wall thermostat.