


## Weekly programmable handwheel thermostat with color LCD screen

- √ Diverse programming options that fit any lifestyle - up to 6 heating events with individual temperature settings.
- √ Color VA screen (vertical alignment technology)- wide view, high brightness, and high contrast.
- √ Intelligent weather display - support multiple weather display, can view weather information at any time.(Wi-Fi version only)
- √ Set temperature can be specified precisely and intuitive via handwheel(by 0.5°C) .
- √ Curved appearance design - fashion, elegant and enduring.

**Parameter**

| | |
|---|---|
| Supply voltage | AC100~240V; 50/60Hz |
| Power consumption | 1W Max (Wi-Fi version 1.5W Max) |
| Temperature setting range | 5~95°C |
| External sensor upper limit | 5~60°C |
| Switch deviation | 0.5~10°C, Factory setting 1°C |
| Ambient temperature | -5~50°C |
| Protection level | IP20 |
| housing material | Anti-Flammable PC |

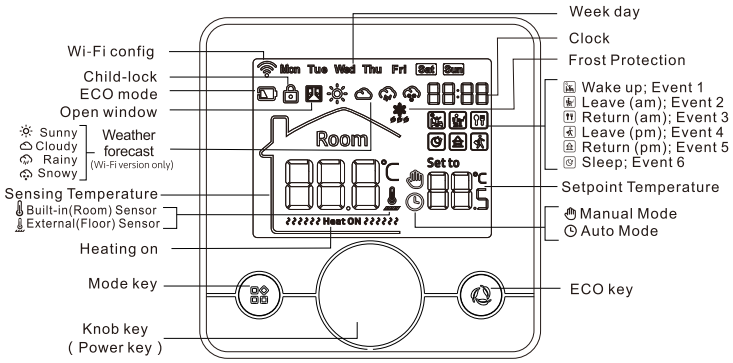
Version:2.0(11/2023)
71.04.00388

## Product Overview

This series of thermostats are designed to meet the different secnarios of floor heating application. Wi-Fi version supports remote control including smart phone control and voice control. Thanks to built-in temperature sensors and weekly programming setting, the desired temperature can be comfortably adjusted. With the device you can conveniently regulate the room temperature.

| Function | Model | Application |
|---|---|---|
| Floor heating | 716 | External sensor + Weekly programming + 16A max |
| | 703 | External sensor(optional) + Weekly programming + 3A max |
| | 723 | Passive linkage control + Weekly programming + 3A max |

## Display Symbols




## User Operation

### Power on/off

Press “ ◎ ” shortly , the thermostat will be turn on/off.

### Time setting

Press and hold “ ⏻ ” for 3 seconds to enter time setting, and adjust it as follow:

· Choose modified item by pressing “ ⏻ ”, and set the week day and clock by rotating handwheel “ ◎ ”. Finally, confirm by pressing “ ◎ ” shortly.

### Temperature setting

Rotate handwheel “ ◎ ” to increase or decrease setpoint temperature by 0.5°C.

### Child-lock

Press and hold “ ⊞ ” + “ ⏻ ” for 3 seconds to activate child-lock, the thermostat can be locked. Press and hold both keys again to deactivate child-lock.

### Temperature Control Mode

Press “ ⊞ ” shortly to switch between manual mode and auto mode.

· Manual Mode:The temperature is controlled in accordance with the current temperature set via handwheel “ ◎ ”. It remains activated until the next manual change.

· Auto mode: The temperature is controlled in accordance with the set heating profile. Manual changes are activated until the next point at which the profile changes( “ ⏲ ” is displayed on the screen). Afterwards, the defined heating profile will be activated again.

### ECO mode

Press “ ⏻ ” shortly to enter ECO mode ,and the temperature will be set to 18°C.

### Wi-Fi config(Wi-Fi version only)

Press and hold “ ⏻ ” for 3 seconds to enter Wi-Fi config during power off,and add the thermostat on Tuya Smart/Smart Life APP.

## Weekly programming setting

For weekdays and weekend up to 6 heating events with individual temperature settings can be saved with the thermostat. Press and hold “ ⊞ ” for 3 seconds to enter weekly programming setting, adjust it as follow:

· Choose modified item by pressing “ ⊞ ”, and set the week day, clock and temperature by rotating handwheel “ ◎ ”. Finally, confirm by pressing “ ◎ ” shortly.

| Events | | Symbols | Time | | Temperature | |
|---|---|---|---|---|---|---|
| | | | Default value | Modify | Default value | Modify |
| Weekdays | 1 | | 06:00 | ◎ Rotate knob key | 20°C | ◎ Rotate knob key |
| | 2 | | 08:00 | | 15°C | |
| | 3 | | 11:30 | | 15°C | |
| | 4 | | 12:30 | | 15°C | |
| | 5 | | 17:00 | | 22°C | |
| | 6 | | 22:00 | | 15°C | |
| Weekends | 1 | | 08:00 | | 20°C | |
| | 2 | | 22:00 | | 15°C | |

## Advanced Setting (Usually for Professional Technicians)

During power-off, press and hold “ ⊞ ” for 3 seconds to enter advanced setting mode, then re-press“ ⊞ ” to switch to next setting item. Finally, confirm by pressing “ ◎ ” shortly.

| Code | Meaning | Rotate knob key “ ◎ ” | Default Value | Floor Heating | | |
|---|---|---|---|---|---|---|
| | | | | 716 | 703 | 723 |
| 1ADJ | Temp. calibration | -9.9~9.9°C | 0°C | √ | √ | √ |
| 2SEN | Sensor selection | IN: Temp. control based on built-in sensor<br>OUT: Temp. control based on external sensor<br>ALL: Temp. control based on built-in sensor and limited by external sensor | IN | √ | √ | × |
| 3LIT | External sensor upper limit | 5~60°C | 35°C | √ | √ | × |
| 4DIF | Switch deviation | 0.5~10°C | 1°C | √ | √ | √ |
| 5LTP | Frost protection | ON: frost protection on<br>OFF: frost protection off | OFF | √ | √ | √ |
| 6PRG | Weekly programming setting | 12345: 5+2 week mode<br>123456: 6+1 week mode<br>1234567: 7+0 week mode | 12345 | √ | √ | √ |
| 8DLY | Delay time of passive linkage control | 0~5min | 0 | × | × | √ |
| 9HIT | Temp. upper limit | 5~95°C | 50°C | √ | √ | √ |
| AFAC | Restore factory settings | Press and hold “ ⏻ ” for 3 seconds | / | √ | √ | √ |

## Video support

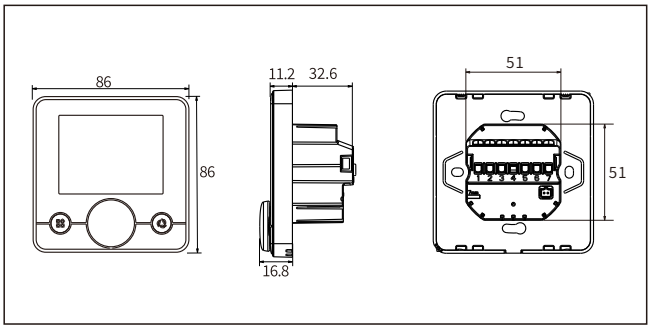
Scan the corresponding QR code according to your needs to obtain the content.

Operation Video

Mounting Video

Network Video

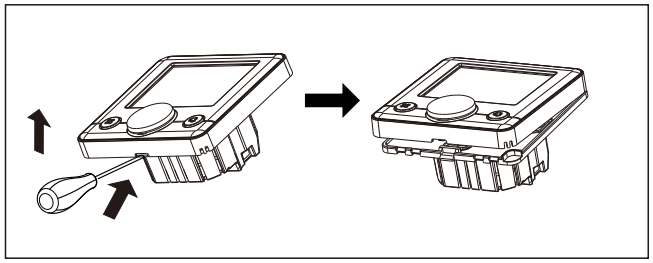
## Dimensions (Unit: mm)




## Mounting Steps

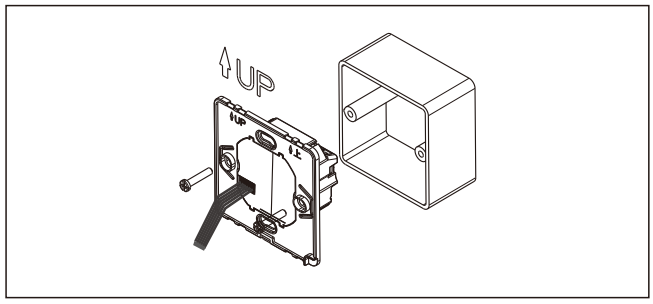
The thermostat adopt pre-guide and limited snap-fit design. It is easy to mount.

1) Release front cover by inserting a head screw-driver into bottom crack.

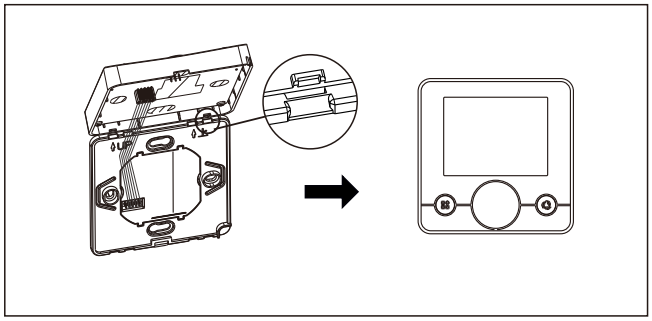


2) Connect wires to terminal block per the wiring schematic according to wiring diagram.(Suggested copper wire length is 7-9mm.)

3) Attach the thermostat base to wall-cassette by two mounting screws. After attaching it, make sure there is no deformation on the thermostat. (Suggested torque is 0.2~0.4N.m (2.0~4. 1kgf.cm).)




4) Re-mount the front cover via snap-fit connection.



## Sensor failure

Please connect the sensor correctly according to your sensor selection setting.When it shows **Er0/Er1** error, thermostat will stay power-off till the error is eliminated.

- **Er0**: Built-in sensor is short-circuited or disconnected.
- **Er1**: External sensor is short-circuited or disconnected.

## Wiring Diagram

The thermostat operates in full capacity in areas with the altitude of less than 2500m above sea level. Power rating of external load should be less than or equal to 80% rated power of the thermostat in areas with altitude of 2500m to 4200m.

