

fastwarm™



## Touchscreen Thermostat

INSTRUCTION MANUAL



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## Introduction

**The Fastwarm™ touch smart thermostat series is a smart thermostat used to control your electric floor heating system or water heating system.**

It will keep your home at comfortable temperature whilst minimizing energy use. Install the app on your smart phone to control your electric heating system remotely with the WiFi thermostat.



## Main Functions

- ✓ Auto mode
- ✓ Hold Mode
- ✓ Holiday mode
- ✓ Anti-frozen function
- ✓ Floor temperature limit
- ✓ Open window detection function
- ✓ Key-lock
- ✓ Brightness
- ✓ Sensor selection
- ✓ Adaptive function

## TECHNICAL SPECIFICATIONS

### Supply voltage:

85-265Vac 50/60Hz

### Standby power:

<2W

### Max load:

16A(electric heating)

3A(water heating)

### IP Rating:

IP20

### Wire Diameter:

≤2.5mm<sup>2</sup>

## Installation



### Step 1

Separate the panel from the back section: insert the screwdriver into two holes under the thermostat and pry it like the picture.



### Step 2

Connect the wire as shown in the wiring instruction.



### Step 3

Fix the back section to switch box with screws provided.



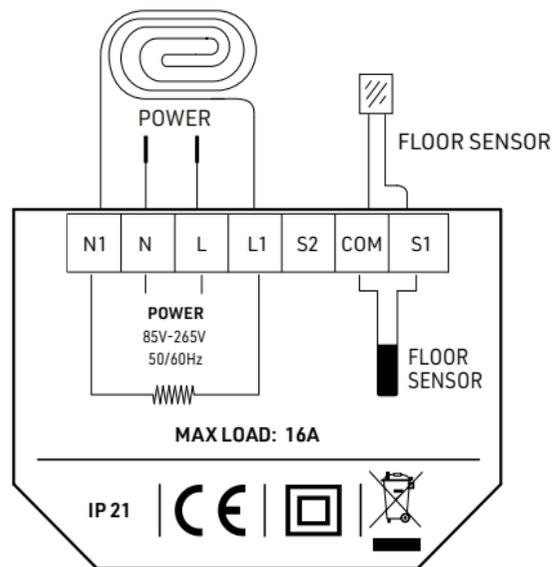
### Step 4

Re-install front panel whilst ensuring the pins engage properly in the circuit board socket.

**IMPORTANT:** The thermostat should be mounted in a standard 86 type switch box.



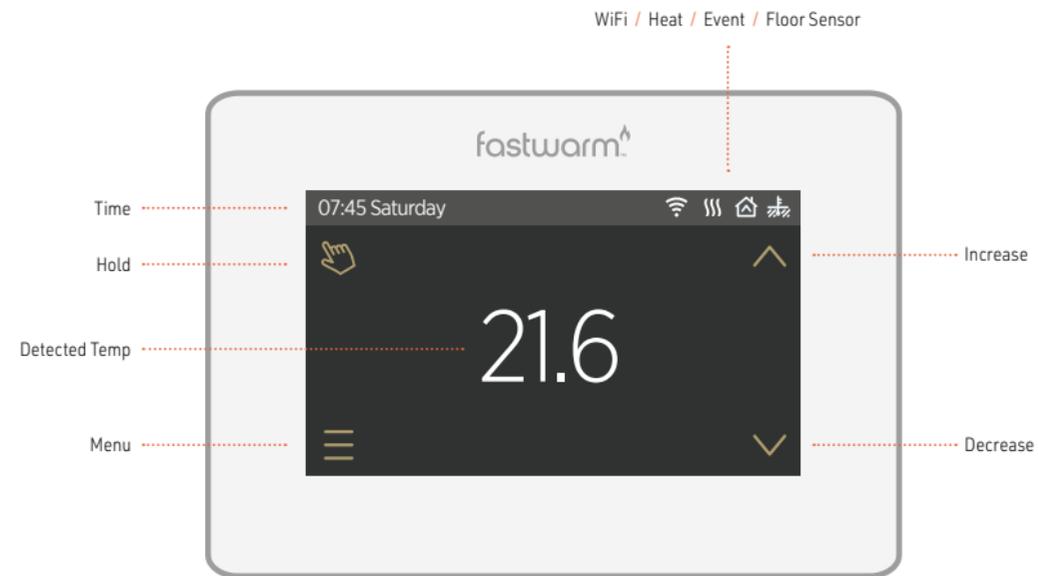
## Wiring Instructions



**Suggestion:** Please keep the max load around 90% of 16A to prolong the lifetime.

**CAUTION:** Ensure power is disconnected when wiring!

## Thermostat Symbols





## Function & Operation

### ON/OFF

Press the button on the right side of the thermostat to turn on/off.

**Note:** When anti-frozen function is active, the thermostat will maintain the anti-frozen temperature when power off.

### TEMPORARY OVERRIDE TEMPERATURE

In the page of detected temperature, press  $\wedge$  or  $\vee$  to change the current event temperature setting. The thermostat will revert to the parameters of schedule at the start-time of the next event in auto mode.

### MODE SELECTION

In the page of detected temperature, press the key in the up left corner to select the mode. There are 3 modes:

#### Auto Mode

This is the thermostats default mode.

Thermostat will run according to event parameters set within the **Edit Setting** section. Press **Auto Mode** to confirm and revert to home screen.

#### Manual Mode

Will remain at the set temperature until changed.

Press **Manual Mode** to enter temperature setting.  
Press  $\wedge$  or  $\vee$  to set the temperature.  
Press  $\checkmark$  to confirm and revert to home screen.

#### Holiday Mode

Thermostat will run with the set temperature until the holiday time ends.

Press **Holiday Mode** to enter holiday setting.  
Press  $\wedge$  or  $\vee$  to set the days of holiday.  
Press  $\checkmark$  to confirm and enter holiday temperature setting.  
Press  $\wedge$  or  $\vee$  to set the temperature.  
Press  $\checkmark$  to confirm and enter the page of detected temperature.





# Menu

In the page of detected temperature, press the  key to enter Menu.  
There are 5 parameter settings.

## 1. TIME

**The day and clock are set here.**

Press Time to enter day setting.

Press the day you want to enter hour setting.

Press  or  to set hour.

Press  to confirm and enter minute setting.

Press  or  to set minute.

Press  to confirm and go back to the menu.

Press  to back to the home screen.

\* If the thermostat is WiFi version, it will update time automatically after connecting to WiFi.



## 2. KEY LOCK

**Lock all keys to prevent the settings from being changed.**

Press Key Lock to enter key lock setting.

Press  or  to select lock.

Press  to confirm and back to the home screen.

### To unlock

In the page of detected temperature, press any key then  (in the down right corner) will flash 3 times.

Press and hold  for 3 seconds to unlock.

## 3. BRIGHTNESS

**This option allows you to change the brightness of the display.**

Press Brightness to enter brightness setting.

Press  to move up/down or touch any part of the line to set the brightness.

Press  to confirm and back to Menu.



#### 4. EDIT SETTING

**Edit setting can set and change the parameters. If you don't choose Holiday Mode or Hold Mode. The thermostat runs according to the parameters of Edit.**

Press Edit Setting to enter days selection.

Press the day you want to set.

Press ✓ to enter event selection.

Press the event you want to set and enter the start time hour setting.

Press ^ or v to set start time hour.

Press ✓ to confirm and enter the start time minute setting.

Press ^ or v to set start time minute.

Press ✓ to confirm and enter temperature setting.

Press ^ or v to set temperature.

Press ✓ to confirm and back to event selection.

Press ↶ to back to the home screen.



#### DEFAULT PARAMETERS

Day	Wake	Leave	Back	Sleep
Mon-Fri	07:00 22.0°C	08:30 19.0°C	17:00 22.0°C	22:00 19.0°C
Sat/Sun	08:00 22.0°C	08:30 22.0°C	17:00 22.0°C	22:00 19.0°C

#### 5. ADVANCED SETTING

**The thermostat provides advanced settings to suit various special situations. These are normally set by technicians during initial installation.**

Press Advanced Setting to enter the page of warning.

Press ✓ to enter the page of advanced setting.

Press ^ or v to switch page.

Press the item to set its parameters.



No.	Name	Default	Ranges
1	Room Temperature Calibration	0.0°C	-5.0°C -- 5.0°C
2	Floor Temperature Calibration	0.0°C	-5.0°C -- 5.0°C
3	Anti-Frozen Function	ON	OF(OFF) ON
4	Anti-Frozen Temperature	5.0°C	5.0°C -- 15.0°C
5	Floor Temperature Limit	30.0°C	20.0°C -- 50.0°C
6	Temperature Tolerance	1°C	0.5°C/1°C/2°C/3°C
7	Temperature Unit	°C	°C/°F
8	Sensor Selection	Floor	Room/Floor/Both
9	Schedule	5+1+1	5+1+1/7
10	Output Delay	0 Sec	0S/30S/60S/90S
11	Adaptive Function	OFF	ON/OFF
12	Open Window	OFF	ON/OFF
13	Power Set	0 W	0W -- 4500W
14	Energy Use		
15	Factory Reset	NO	NO/YES

- Room Temperature calibration:** Calibrate the temperature detected by room sensor.
- Floor Temperature calibration:** Calibrate the temperature detected by floor sensor.
- 3&4. Anti-frozen function:** If the Anti-frozen function opened, it will keep the room and floor at a lower temperature in order to protect the pets and plants in your house. Also, it can protect your pipe against freezing when using the water heating system.
- 5. Floor temperature limit:** When choose both sensors, you can set the maximum floor temperature value, system will stop heating if the floor temperature exceed this value.
- 6. Adaptive function:** After several days of installation and use, Adaptive function ensures that the required temperature has already been reached when the next event begins.
- 7. Temp unit:** °F and °C can be selected.
- 8. Sensor selection**  
**Room sensor:** Run by room sensor.  
**Floor sensor:** Run by floor sensor.  
**Both sensors:** Run by room sensor with floor temp limit.
- 9. Schedule:** Select a weekly schedule for the event.  
**7:** each day from Mon to Sun can be set individually.  
**5+1+1:** Mon to Fri have the same events, Sat and Sun can be set individually.
- 10. Output delay:** This option help you avoid inadvertent operation on heating.
- 11. Adaptive function:** After several days of installation and use, Adaptive function ensures that the required temp has already been reached when the next event begins.
- 12. Open window:** This function only works when room sensor or both sensors is selected.  
The thermostat with this function will shut off automatically for 15 min when the window opens, as it can detect that the room temp plummets.
- 13&14. Energy use:** This option allows you to enter the various data used to calculate energy use.
- 15. Factory Reset:** All parameters are restored to default values.





## Troubleshooting

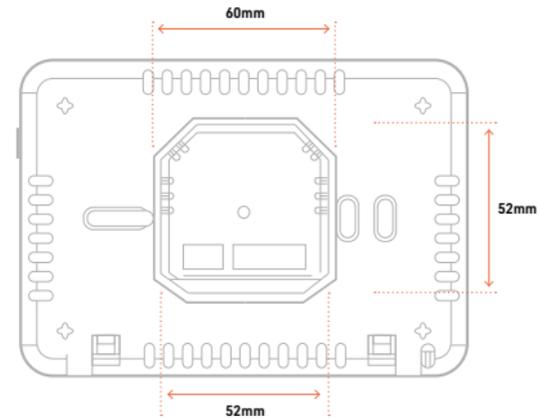
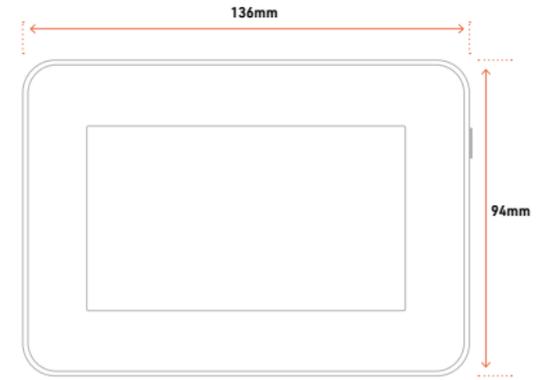
### Room Sensor Error!

Built-in sensor short-circuit  
or disconnected.

### Floor Sensor Error!

Floor sensor short-circuit  
or disconnected.

## Dimensions







If any products received within this package are damaged or defective, please feel free to contact us and we'll be happy to assist.

[www.fastwarm.com](http://www.fastwarm.com)