Smart Thermostat User Guide

Easy Touch. Easy Warm.

0800 056 0494

Contents

Introduction

The Amber Smart Thermostat is an intuitive programmable thermostat which can be used to control either electric or wet underfloor heating systems. It will keep your home at a comfortable temperature whilst minimising energy use. Simply install the app on your smart phone to control your Amber Smart thermostat remotely.

Technical Specifications

Supply Voltage: 85-265Vac 50/60Hz

Standby Power: < 1W/2W (WiFi version)

Max Load: 16A(electric heating)/3A(water heating)

IP Class: IP21

Cable Specification: ≤2.5mm²

Installation

1

Using your fingers, apply firm pressure between the thermostat front and the outer frame at the top, and pull towards you.

2

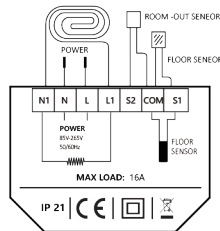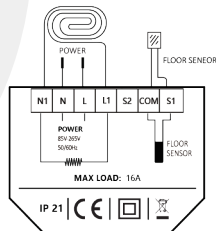Connect the thermostat according to the wiring diagram.

3

Mount and reassemble the thermostat. Secure the thermostat to an electrical wall box using screws at either side of the thermostat.

4

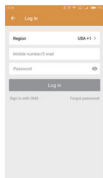Carefully click the display module back in position.

Wiring Instructions

For installations in a bathroom or wet location where the thermostat cannot be installed within the room, please select either floor sensor, remote air sensor or floor sensor and remote air sensor. A remote air sensor (room-out sensor) can be purchased separately. All electric underfloor heating must use a floor sensor.

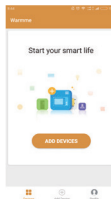**Suggestion:** Please keep the max load around 90% of 16A to prolong the lifetime.

WiFi Connection

Step 3: Click "Add Device"on the bottom of the screen.

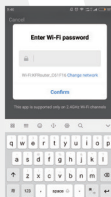**Step 2:** Click the APP, login through the registered phone number or email address.

[App Store] [Google Play]

Step 1: Scan the QR code on the inside cover of this User Guide or download the APP from an app store.

Step 4: Check the thermostat WiFi flag is fast flashing. If not,operate the thermostat according to the APP tips until it flashes quickly. Click the "Make sure WiFi is flashing quickly" button.

retail@amberufh.co.uk   If you experience a problem connecting, we're here to help.

Step 6: Click "Done" after the APP has connected successfully to the thermostat.

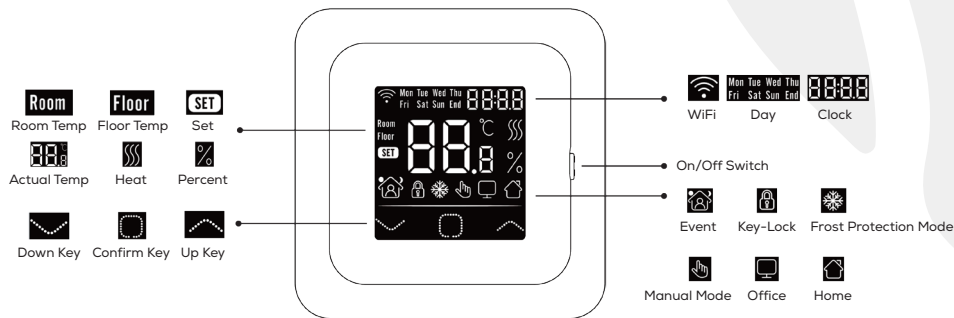**Step 5:** Fill in the phone with the WiFi network password, click "confirm".

Step 7: You can check the real-time temperature, adjust or set the temperature, switch on/off or do other operations on the main interface.

Thermostat Symbols

Once the thermostat has been installed and connected to the electric supply, simply turn the thermostat on using the Master On/Off switch on the side of the thermostat. Slide the switch down to turn on or up to turn off.

• Press the ▢ to confirm the selection.

• Press the ⌃ and ⌄ to select parameter.

Room	**Floor**	**SET**
Room Temp	Floor Temp	Set
88.8	≋	%
Actual Temp	Heat	Percent
⌄	▢	⌃
Down Key	Confirm Key	Up Key

WiFi   Day   Clock

On/Off Switch

Event   Key-Lock   Frost Protection Mode

Manual Mode   Office   Home

Startup Wizard

Initial settings must be set when the unit is activated for the first time, this will ensure correct and efficient use of your underfloor heating system.

Clock

Day Set   Hour Set   Minute Set

* If the thermostat is connected to the WiFi, it will update the time automatically.

Floor Temperature Limit
(If you choose both sensors)

If you choose room sensor and floor sensor, floor temperature limit must be set to protect floor.

Sensor Selection

There are 5 options:
- **00 Floor sensor:** run by floor sensor only (default).
- **01 Room-in sensor:** uses the built-in room sensor.
- **02 Room-in sensor and floor sensor:** uses the built-in sensor with floor temperature limit.
- **03 Room-out sensor:** uses a remote air sensor.
- **04 Room-out sensor and floor sensor:** uses a remote air sensor with floor temperature limit.

Home or Office

Home   Office

The thermostat can operate in two timer modes, Home or Office. The Home schedule has two heating periods and two off periods, whereas the Office mode has one heating and one off period. See Page 13 for the full schedule and the pre-programmed times, which can be adjusted to suit.

Function & Operation

Temporary Override Temperature

On the actual temperature interface, press the ⌃ and ⌄ to set temporary override temperature. The temperature is only valid at the current event and it will not be saved.

Mode
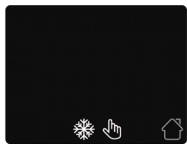
On the main display, Press the ▣ to select the mode.
There are 3 modes:
Auto mode: This is the default mode. The thermostat runs according to programmed time events set in the Event Setting. It will show home if you choose, otherwise it will show office.
Manual mode: Thermostat will run with the desired set temperature.
Anti-frozen mode: The thermostat will run with the low setting temperature until changed, the maximum set temperature in this mode is 15°C.

Key-Lock

Lock all keys to prevent the settings from being changed. On the actual temperature interface, press and hold the ▣ and ⌃ for 3 seconds at the same time to lock or unlock all of the keys.

Menu

On the main display, press and hold the ▣ for 3 seconds to enter menu.

CLK
Set day and time

CLH

EVE
Set event's parameters

EuE
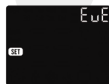
READ
Read heating time of a certain period

rEAd

SET
Various settings

SEΓ
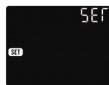
END
Back to actual temp page

End

1 Sensor Selection

1:00
Floor

2 Room Temperature Calibration

2:00
Room 20.0℃

3 Floor Temperature Calibration

3:00
Floor 20.0℃

4 Upper Floor Temperature Limit

4 Lℑ
Floor 35.0℃

5 Schedule Selection

Mon Tue Wed Thu Fri Sat Sun 5:00

6 Used for heating or cooling

6:00
HE A

7 Adaptive Function

7:00
Ad A

8 Located in Home or Office

8:00

9 Reset to Factory Settings

9:00
NO

------Sitemap of the menu

Clock

The default interface of the menu is CLK. Day and clock is set here.

1. Press the ▣ to enter day setting.
2. Press the ◣ or ◢ to set day.
3. Press the ▣ to enter hour setting.
4. Press the ◣ or ◢ to set hour.
5. Press the ▣ to enter minute setting.
6. Press the ◣ or ◢ to set minute.
7. Press the ▣ to go back to the actual temperature interface.

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

Event Setting

Event setting is where you can program and change the times your heating is required. When in Auto Mode, the thermostat switches the heating on and off in-line with the programmed times. On the clock interface, press the ◣ or ◢ to select EVE (for event).

1. Press the ▣ to enter day selection of event setting.
2. Press the ◣ or ◢ to select a day or end.
3. Press the ▣ to enter the event selection of the day, or back to the actual temperature interface if you select end.
4. Press the ◣ or ◢ to select an event.
5. Press the ▣ to select event's start time.
6. Press the ◣ or ◢ to set the Hour of starting time.
7. Press the ▣ to enter the Minute setting.
8. Press the ◣ or ◢ to set the Minute of starting time.
9. Press the ▣ to enter the temperature setting.
10. Press the ◣ or ◢ to set the temperature.
11. Press the ▣ to back to the event selection, or back to day selection if the event is last one.

* If you want to go back to the actual temperature interface, you should go back to the day selection and select end.

Default Parameters

	Day	(Wake)	(Leave)	(Back)	(Sleep)
Home	Mon - Fri	06:00 20.0°C	08:30 15.0°C	17:00 20.0°C	23:00 15.0°C
	Sat / Sun	06:00 20.0°C	08:30 20.0°C	17:00 20.0°C	23:00 15.0°C
	Day	(Wake)	(Leave)		
Office	Mon - Fri	07:00 20.0°C	18:00 15.0°C		
	Sat / Sun	07:00 15.0°C	18:00 15.0°C		

Readout

1. Count the heating time (in percent) within a certain period.
2. On the clock interface, press the ⏶ or ⏷ to select READ.
3. Press the ⏹ to enter Readout, the interface will show the heating time of the previous day.
4. Press the ⏶ or ⏷ to select 1 day, 30 days, 365 days, it will show the heating time within the certain period.
5. Press the ⏹ to back to the actual temperature interface.

Advanced Setting

1. The thermostat provides advanced settings to suit various special situations. These are normally set by technicians during initial installation.
2. On the clock interface, press the ⏶ or ⏷ to select SET.
3. Press the ⏹ to enter advanced setting.
4. Each setting can be accessed by pressing ⏹ and parameters adjusted by pressing ⏶ or ⏷ .

Number	Name	Default Setting	Options
1	**Sensor Selection**	00: Floor Sensor	00: Floor Sensor 01: Room-In Sensor 02: 01+00 03: Room-Out Sensor 04: 03+00
2	**Room Temp Calibration**	0.0°C	-5.0°C – 5.0°C
3	**Floor Temp Calibration**	0.0°C	-5.0°C – 5.0°C
4	**Floor Temp Limit**	35.0°C	20.0°C – 50.0°C
5	**Schedule**	00: 7	00: 7 01: 5+1+1
6	**Used For**	00: Heating	00: Heating 01: Cooling
7	**Adaptive Function**	00: Adaptive	00: Adaptive 01: No
8	**Located In**	00: Home	00: Home 01: Office
9	**Reset**	00: No	00: No 01: Reset

1. **Sensor selection:**
   There are 5 options:
   00 Floor sensor: uses the floor sensor only (default).
   01 Room-in sensor: uses the built-in room sensor.
   02 Room-in sensor and floor sensor: uses the built-in sensor with floor temperature limit.
   03 Room-out sensor: uses a remote air sensor.
   04 Room-out sensor and floor sensor: uses a remote air sensor with floor temperature limit.
2. **Room Temp Calibration:** calibrate the temperature detected by room sensor.
3. **Floor Temp Calibration:** calibrate the temperature detected by floor sensor.
4. **Floor Temp Limit:** if you choose both sensors, floor temperature limit must be set to protect floor.
5. **Schedule:** Select a weekly schedule for the event.
   There are 2 options
   7: each day from Mon to Sun can be set individually.
   5+1+1: 5 days from Mon to Fri have the same events, Sat and Sun can be set individually.
6. **Used For:** heating or cooling.
7. **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.
8. **Located In:** Home or Office.
9. **Reset:** all parameters are restored to default values.

Open Window Detection

This function only works when either the room sensor or both sensors are selected (refer to 6.2). When this function is activated, the thermostat will shut off automatically for 15 minutes should it detect a sudden fall in temperature, for example when a window is opened.

Troubleshooting

E1: Room-in sensor error. **E2:** Floor sensor error. **E4:** Room-out sensor error.

Dimensions (mm)