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CONTROLS
GW01 WiFi
Gateway for
RF Controls

EPH CONTROLS GW01 WiFi Gateway for RF Controls Instructions

Contents

EPH
CONTROLS

EPH CONTROLS GW01 WiFi Gateway for RF Controls

Product Information

Specifications:

- Operates on 2.4GHz
- Does not support 5GHz
- Minimum iOS requirement: iOS 9
- Minimum Android OS requirement: 5.1 (Lollipop)

Product Usage Instructions

WiFi Requirement:

- The SSID of your Wi-Fi should not be hidden when pairing the gateway to your router.
- Install the gateway in a place with a good Wi-Fi signal.
- Ensure the MAC address of the gateway is not blacklisted by the router.
- Restart your wireless router periodically for a stable connection.
- Pay attention to the number of devices connected to your wireless router.

Positioning of the Gateway:

- Locate the gateway near the programmer in an area with good Wi-Fi signal.
- Avoid installing it close to appliances like microwaves or televisions for a stable connection.

Pairing Your Programmer to Your Gateway:

1. Reset your router by switching it off and on.
2. Press the button on the Programmer for 5 seconds to display 'Wireless Connect' on the screen.

3. Press the button for 3 seconds to enter the gateway connection screen with a four-digit code alternating on the screen.
4. Press and hold the 'Function' button on the Gateway for 10 seconds until red and green LEDs flash simultaneously every 1 second.
5. Wait for the LEDs on the gateway to stop flashing and then press the button to complete the pairing process.

FAQ:

- **Q: What should I do if my gateway is not connecting to Wi-Fi?**
  A: If your gateway is not connecting to Wi-Fi, try resetting your router and ensuring that the SSID is visible, and the MAC address is not blacklisted. Position the gateway in an area with a good Wi-Fi signal for better connectivity.
- **Q: Can I use the EMBER app with any operating system?**
  A: The EMBER app requires a minimum iOS version of 9 or Android OS version of 5.1 (Lollipop) to function properly.

Welcome
Thank you for choosing EMBER by EPH Controls. We hope you enjoy using it as much as we did developing it!
Controlling your heating anywhere, anytime is only a few simple steps away.
In this booklet, we will provide a step by step guide to setting up the EMBER heating control app and its associated hardware. Again, thank you for choosing EMBER.

Getting Started

WiFi Requirement

- The SSID of your Wi-Fi should not be hidden when you are pairing the gateway to your router.
- Please install the gateway in a place with a good Wi-Fi signal.
- The GW01 gateway operates on 2.4GHz. It does not support 5GHz.
- The MAC address of gateway should not be in the blacklist of the router.
- Please restart your wireless router periodically or restart it before you are going on holiday to ensure that the connection is kept after long periods of inactivity.
- Pay attention to the number of devices connected to your wireless router. Some routers may not work properly if too many devices are connected.

Device Operating System

1. Minimum iOS is 9.
2. Minimum Android OS is 5.1 (Lollipop)

Positioning of the gateway
The gateway should be located near the programmer in an area with good Wi-Fi signal. It should not be installed close to appliances such as microwaves, televisions etc.
The above will ensure a stable connection for remotely controlling your heating system.

Useful Information:

- Visit EMBER YouTube channel for the PS Set up Guide.

- On the Initial Setup screen, click on the Setting icon ⚙ to access Tutorials, FAQs and Videos.
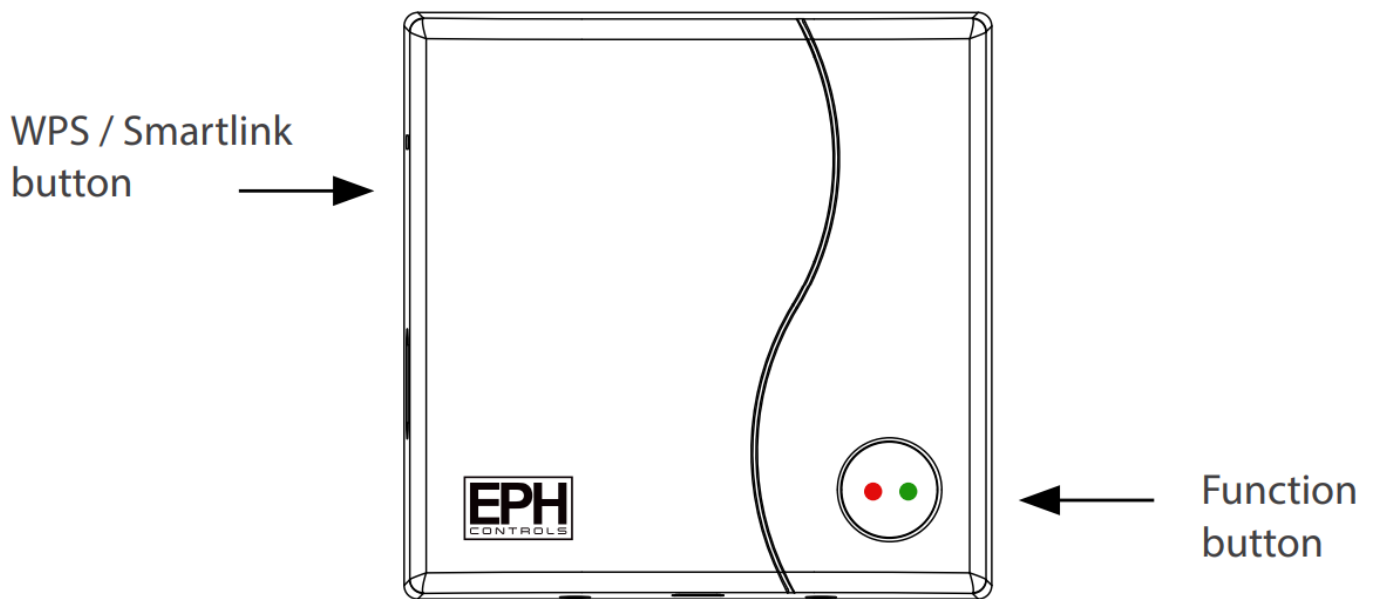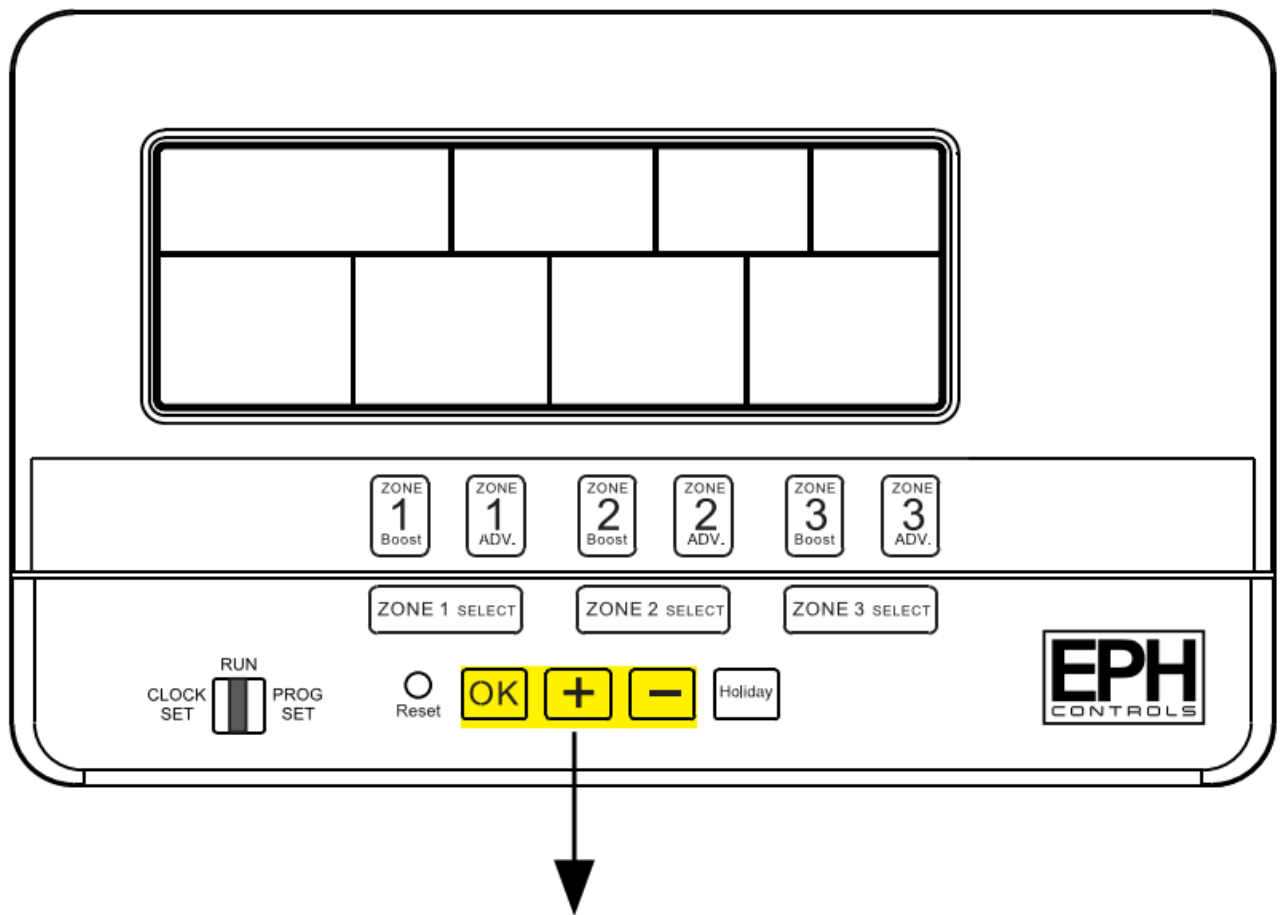
LCD / LED / Button Legend

Gateway

WPS / Smartlink button →

Function button

EPH CONTROLS

Figure (5-a): The gateway

LED	Status
Red LED on	Gateway not connected to Wi-Fi
Green LED on	Gateway connected to Wi-Fi
Red & Green LEDs On	Wi-Fi connection issue. Reset router.

Programmer

Buttons to be used during gateway installation

Figure (5-b): The RF programmer

Pairing your programmer to your gateway

Complete this step before pairing your thermostats to your programmer

1. Reset your router by switching it off and on.
2. On the Programmer, press the ⊟ button for 5 seconds.
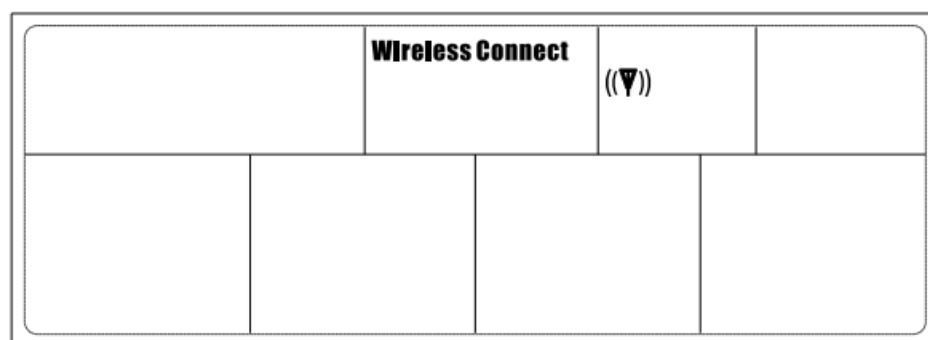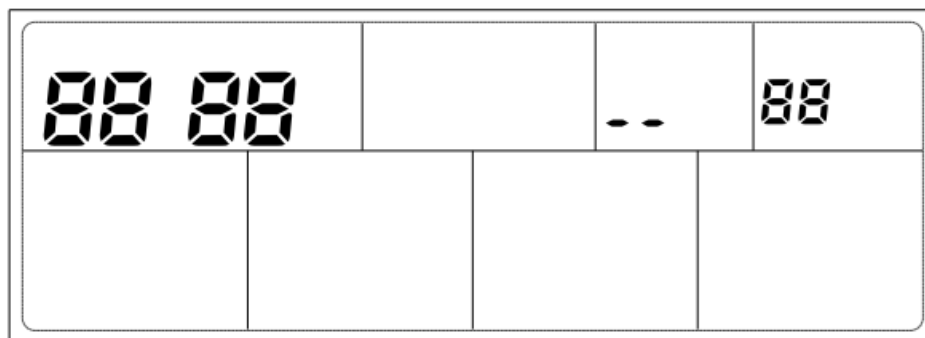3. 'Wireless Connect' will appear on the screen. Figure (6-a)

Figure (6-a): 'Wireless Connection' screen

4. Press the ⊞ button for 3 seconds. You will now enter the gateway connection screen.

5. A four digit code will alternate on the screen. Figure (6-b)

Figure (6-b): 'Gateway Connection' screen

6. On the Gateway, press and hold the 'Function' button for 10 seconds.

7. Red and green LEDs on the gateway will both flash simultaneously every 1 second.

8. On the Programmer – 'r1' appears on the screen. Figure (6-c)
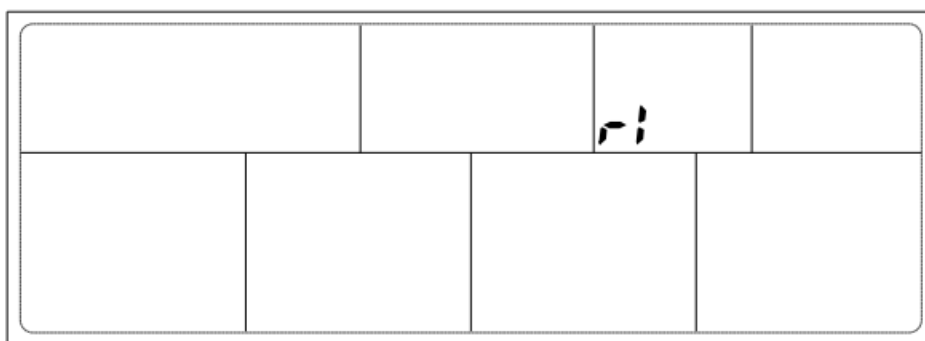
Figure (6-c): 'Gateway Connection' screen

9. Wait for the LEDs on the gateway to stop flashing.

10. Press the [ok] button.

Note

- If 'r2', 'r3' or 'r4' appears on the screen and you are not setting up a multi-programmer system, please reset the RF connections to the gateway by completing the following:
- Press and hold the crystal button until it begins to flash.
- Press the Smartlink / WPS button once.
- The LEDs will stop flashing for 5 seconds.
- Once the LEDs begin to flash again, press the crystal button 3 times.
- This will reset all RF connections to the gateway.
- You can now complete steps 2 – 9 on the previous page.

Pairing your thermostats to your programmer

Complete this step before pairing your thermostats to your programmer

1. Lower the cover on the front of the RF programmer. Move the selector switch to the 'RUN' position.
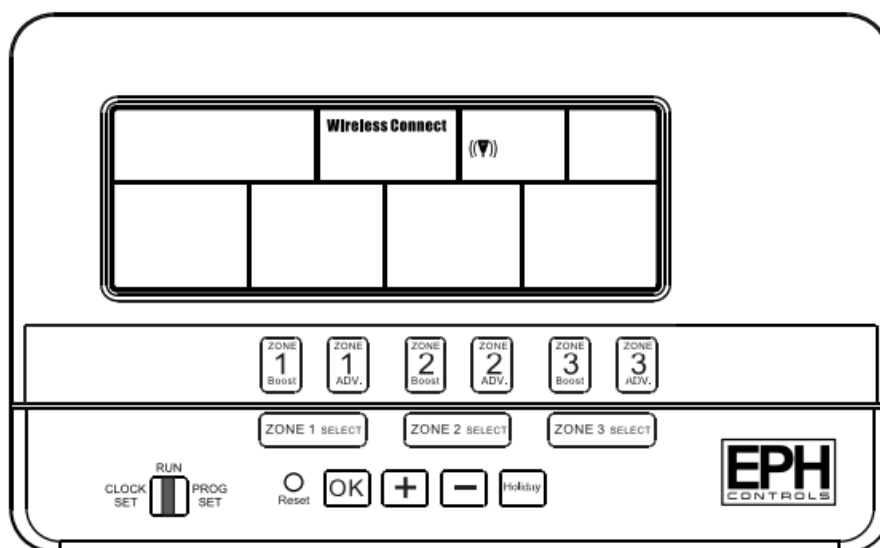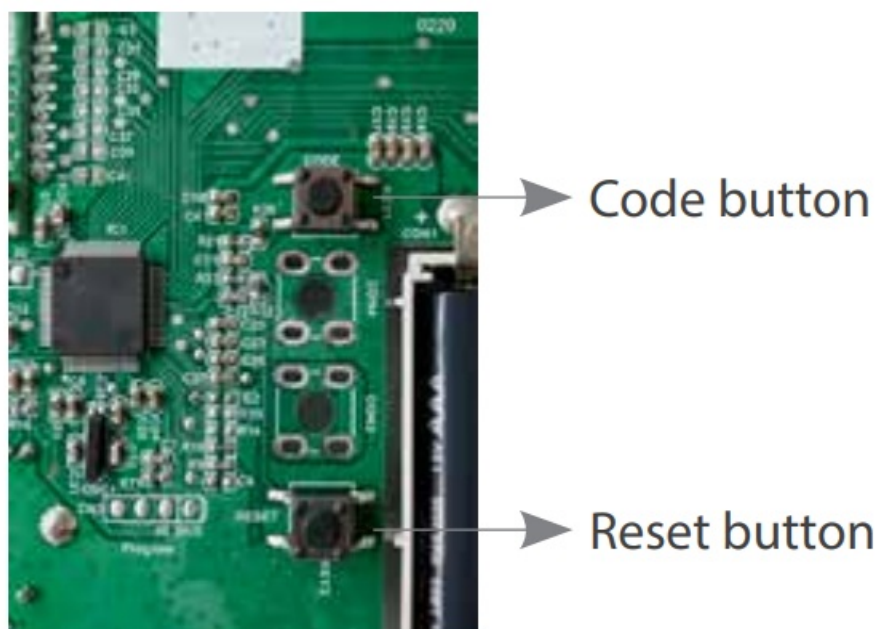

2. On the RF programmer, press the ⊟ button for 5 seconds. Wireless Connect will appear on the screen. Figure (7-a)

Figure (7-a): 'Wireless Connection' screen

3. On the RFR wireless room thermostat or RFC wireless cylinder thermostat, press the 'Code' button. This is located inside the housing on the Printed Circuit Board. Figure (7-b)

➤ Code button

➤ Reset button

Figure (7-b): Printed Circuit Board

4. On the RF programmer, the available zones will begin to flash.

5. Press the ZONE SELECT button for the zone you wish to connect the thermostat to.

6. The wireless symbol ▼ appears on the screen.

7. The thermostat will count to 3 and then display the zone of the programmer that it is paired to. If it is paired to

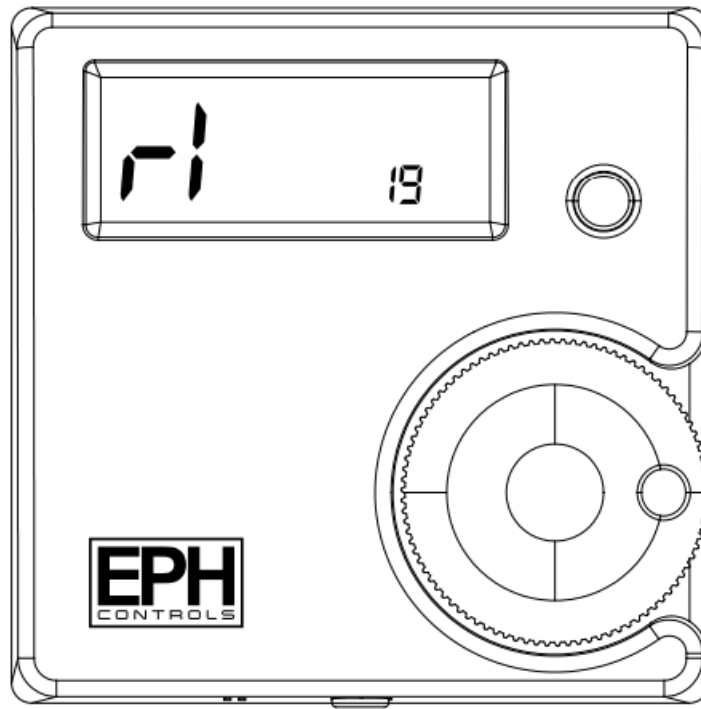the first zone it will display r1, the second zone r2 etc. Figure (7-c)

Figure (7-c) Zone screen

8. Press the wheel on the thermostat to complete the pairing process.
9. The RF programmer is now operating in the wireless mode. The temperature of the wireless thermostat is now displayed on the programmer.
10. Repeat this process for the second, third and fourth zone if required.

EMBER App

Downloading the EMBER App

1. Go to the Apple App Store on your iPhone or the Google Play Store on your Android device and download the EPH EMBER App. QR codes to the download links are available on the back cover.
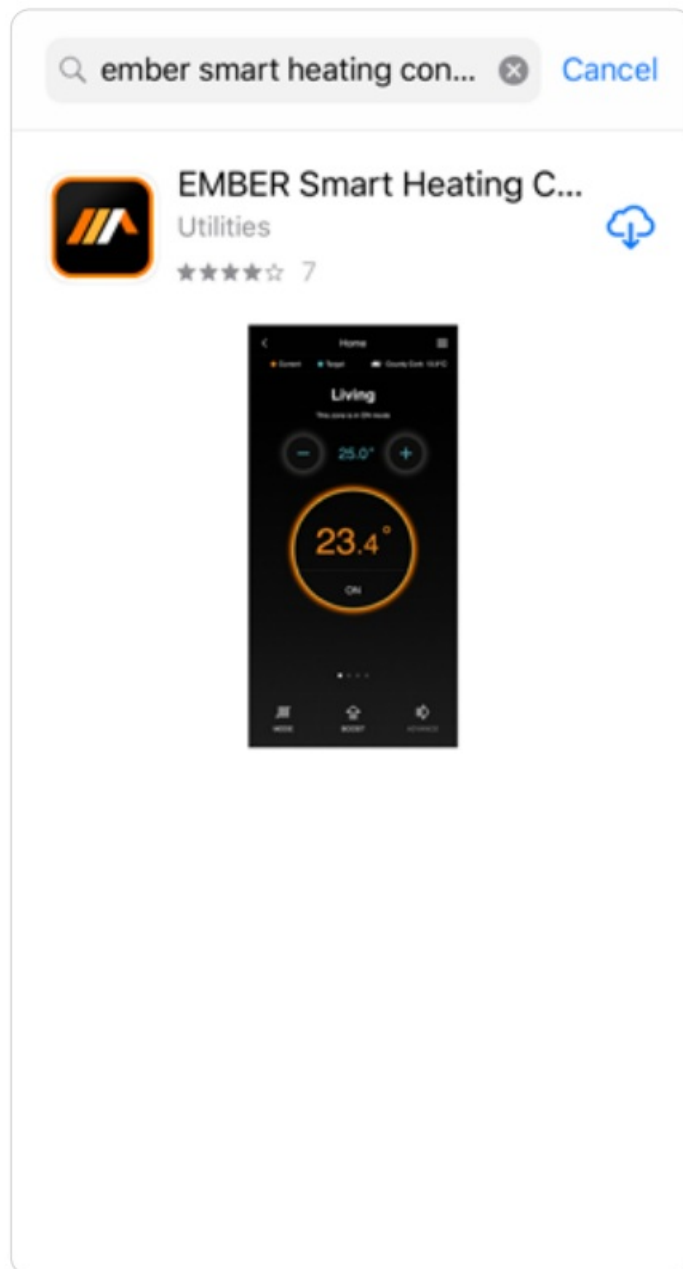
Set up the EMBER App

2. Once the app has been installed, open it.

3. Select 'Create an account' to Sign up with your email address.
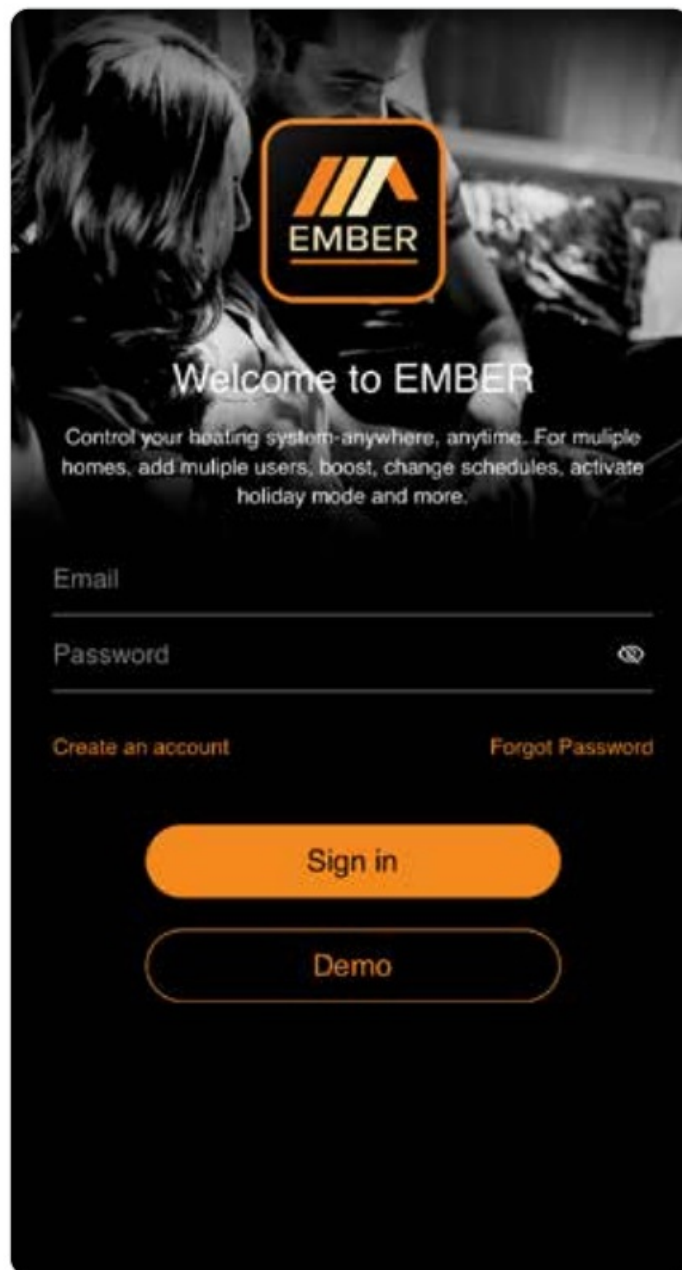
4. Enter your email address.

5. Confirm your email address.

6. Accept the terms and conditions and submit.

7. A confirmation email will arrive in your inbox with a verification code.

8. Enter the verification code and continue.

The verification code is valid for 2 hours. Please complete the verification as soon as possible

Verification code has been sent to
Emilyporter8987@gmail.com

Please enter code to continue.

___ ___ ___ ___ ___ ___

Resend   Continue

Return to Sign in

9. Enter your first name.
10. Enter your last name.
11. Enter your password (Minimum 6 characters – including lowercase, uppercase and numbers.)
12. Confirm your password.
13. Enter your telephone number (optional).
14. Press Sign up.
15. You will be brought to the landing screen to enter your email address and password.
16. During the course of the setup you may be asked to allow notifications, location and detecting local network devices. You should allow EMBER access for these settings as it may cause a problem to setup your system.

Pairing your gateway to your Internet

1. Press 'Wi-Fi Setup' and you will be directed to the Wi-Fi Setup screen. If the light on the gateway is green you can choose the 'Gateway Code'.

If you have been given an invite code, press 'Invite Code' and you may then enter the code to access the home you have been invited to.
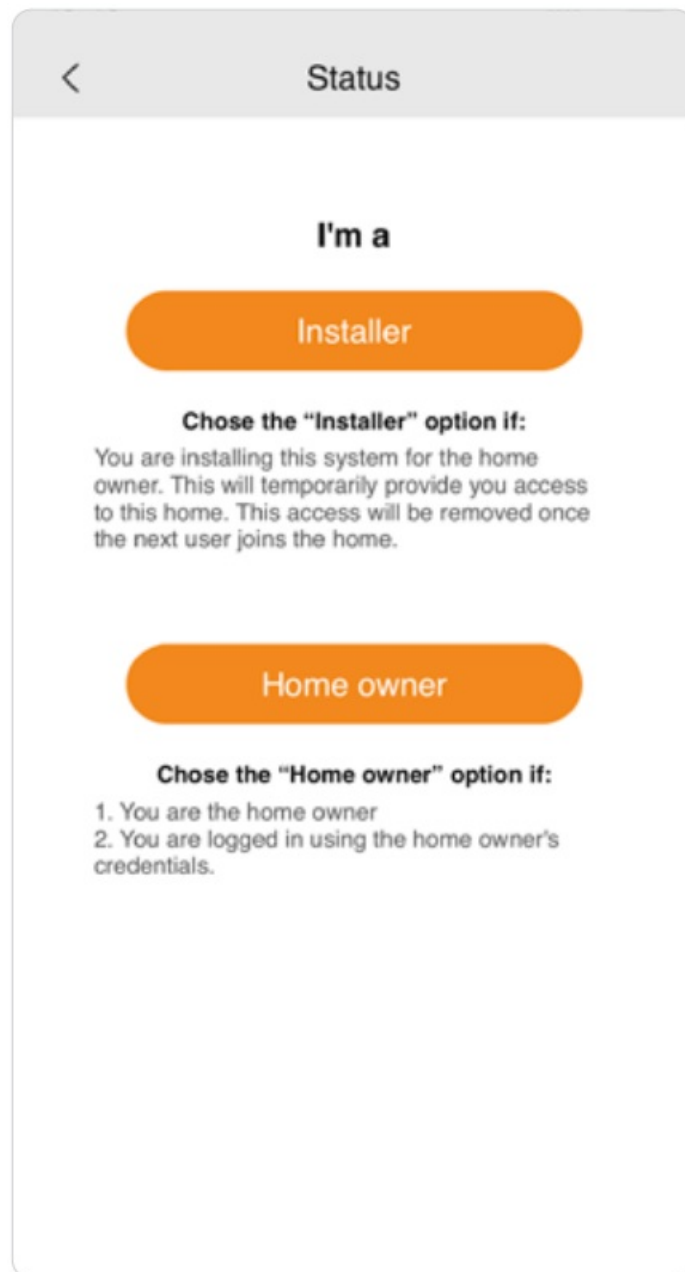
I'm a

Installer

Chose the "Installer" option if:

You are installing this system for the home owner. This will temporarily provide you access to this home. This access will be removed once the next user joins the home.

Home owner

Chose the "Home owner" option if:

1. You are the home owner
2. You are logged in using the home owner's credentials.

- **Chose the 'Installer' option if:**

  You are installing this system for the home owner. This will temporarily provide you access to this home. This access will be removed once the next user joins the home.

- **Chose the 'Home owner' option if:**
  - You are the home owner
  - You are logged in using the home owner's credentials.

2. On the 'Your System' screen, you must choose the 'PS' (Programmer System) option. GW01 will not operate with the 'TS' (Thermostat System).
3. Ensure your mobile device is connected to the same network that the gateway will be connected to. This will ensure that the SSID will be automatically populated with the correct information.

Your System

Choose your system:

PS

Choose the PS option if you are installing the Programmer System

TS

Choose the TS option if you are installing the Thermostat System

NOTE After entering the Wi-Fi password in Step 4, do not press the continue button. Complete step 5 and then press continue button as per step 6.

It is recommended to allow location permission on devices running IOS 13 / Android 9 or above. This will allow EMBER to automatically populate the Wi-Fi (SSID) information during Setup. Without giving this permission, you will have to enter your Wi-Fi (SSID) details manually.

4. Enter Wi-Fi password.
5. On the gateway:

   Press the Function button once (do not hold).

   Press the WPS / Smartlink button once (do not hold).

   Red and green lights will begin to flash on the gateway.
6. On your mobile device: Immediately press 'Continue'. When successful the lights on the gateway will be solid green and you will progress to the Gateway Code screen.

   Synchronising can take 30 seconds – 1 minute.
7. If pairing is unsuccessful, please repeat steps 5 & 6.

WiFi Setup

If you are currently connected to your WiFi then the SSID should be pre-populated. You will need to enter the correct password for the network.
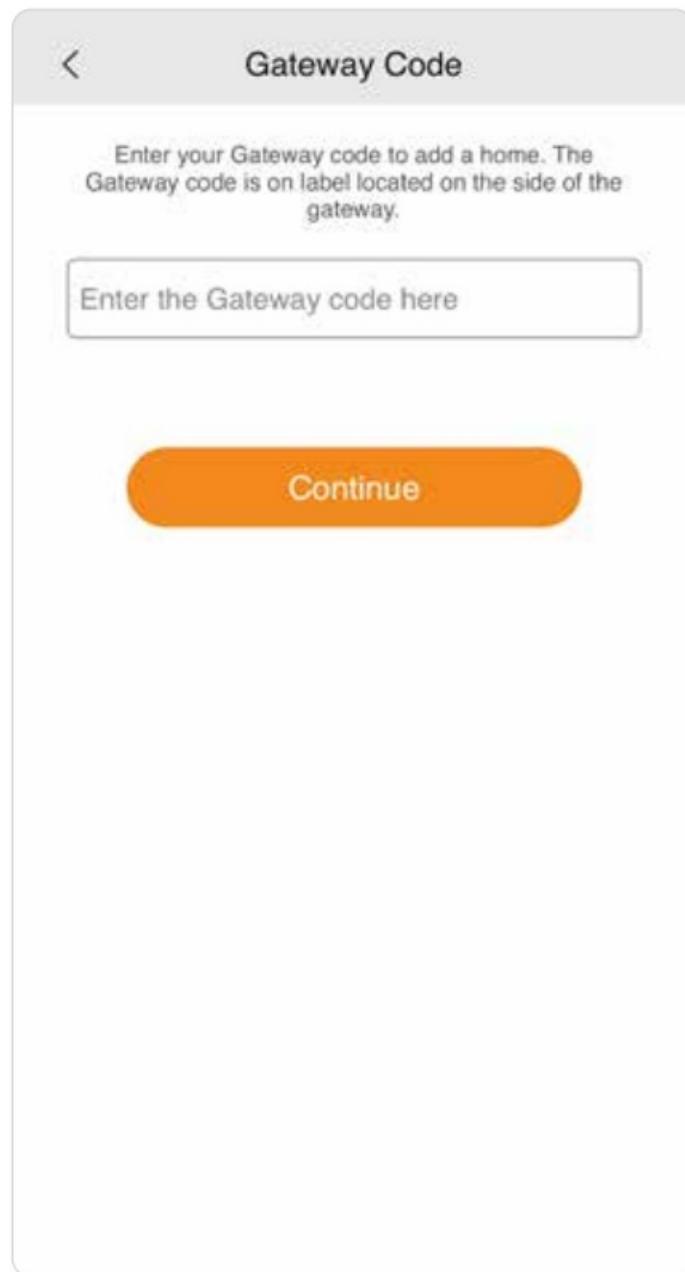
SSID	EPH
Password	Please enter 👁

Important: Do not press the "Continue" button below until the gateway is in pairing mode.
Please make sure you are connecting to 2.4GHz WiFi.

1. Enter your WiFi password.
2. Put the gateway into pairing mode: Press the function button once (do not hold), press the WPS / Smartlink button once (do not hold), red and green lights will begin to flash on the gateway.
3. Press the "Continue" button below within 2 seconds.
4. Synchronising can take up to 30 seconds.

For detailed instructions please refer to gateway instructions.

Continue

8. The Gateway now needs to be associated with your mobile device.
9. Enter the gateway code located on the gateway housing. Wait for the LEDs to stop flashing.
10. Press 'Continue' once only.

Home Setup

Home Setup appears on the screen – this may take a moment. The number of zones connected to the programmer is detected and shown on the screen.

1. Enter the Home name.
2. Enter the Zone names. (It is not possible to rename the Hot Water zone.)
3. Press 'Save' to continue.

Home Setup

We have detected (3) different Zones in your home. Set up your home now by entering information below.

Home	Home
Zone 1	Living
Zone 2	Bedrooms
Zone 3	Hot Water

Save

Set up later

4. Enter the postcode or your address to set the location of your home.
5. Press 'Save'.

6. The Invite User screen will appear.

7. Invite other users if needed or press 'Skip to continue'.

Invite Users

Here is invite code for this home:

759E9

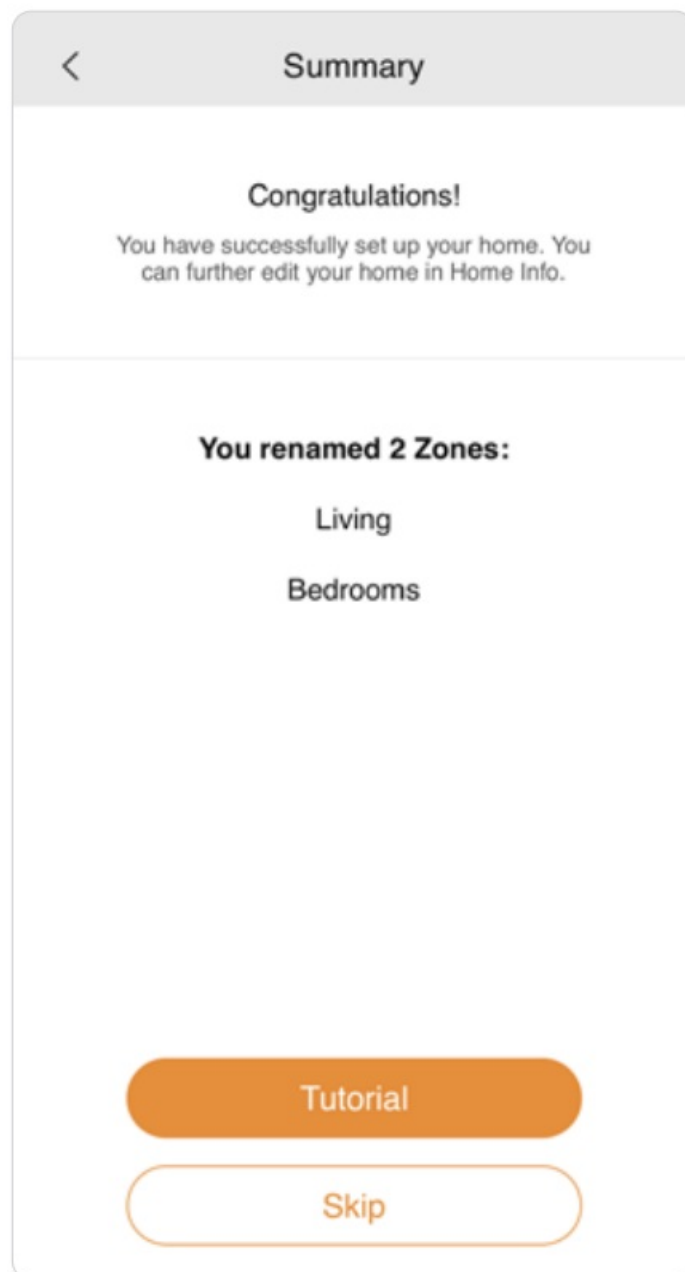You can email it to new user by filling out below:

Name   Name

Email   Email

Invite

Add more user

Skip to continue

8. You will receive a summary confirming the changes that you have made.

9. Press 'Tutorial' to view the tutorials.*

10. Press 'Skip' to complete Home Setup.

Congratulations!

You have successfully set up your home. You
can further edit your home in Home Info.

You renamed 2 Zones:

Living

Bedrooms

Tutorial

Skip

11. The Home screen will appear with the relevant number of zones now able to be controlled from your mobile device.
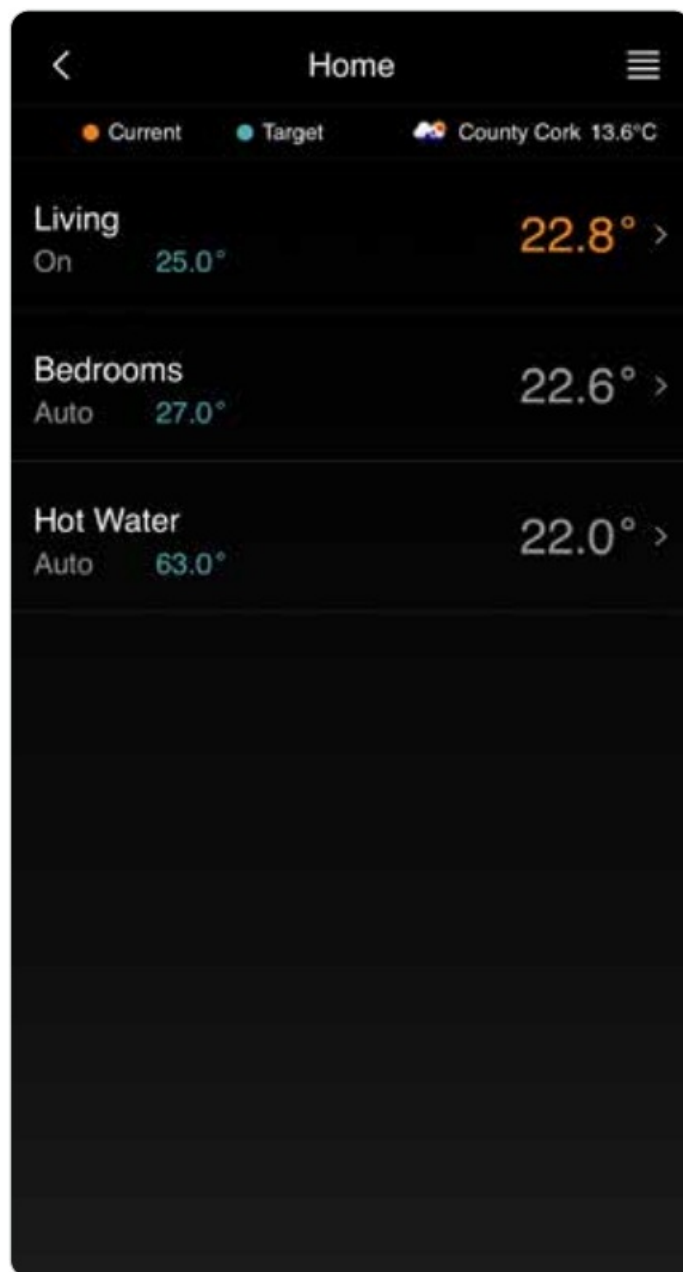
You can access the tutorials from the setting menu and burger menu in the EMBER App.

12. Select one of the zones on the Home screen to access zone control.

Zone Control Diagram

Home name

Menu

Location temperature

Current zone name

Target temperature

Temperature adjustment

Temperature adjustment

Heating on with orange glow

Current temperature

Tap here for schedule.

Current mode

Press and hold for quick boost

Heating on with orange glow

Zone Index

Operating mode

Advance function

Boost function

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View this instruction online

www.ephcontrols.com/ember

Documents / Resources

	[EPH CONTROLS GW01 WiFi Gateway for RF Controls](#) [pdf] Instructions GW01 WiFi Gateway for RF Controls, GW01, WiFi Gateway for RF Controls, Gateway for RF Controls, RF Controls, Controls
	[EPH CONTROLS GW01 WiFi Gateway for RF Controls](#) [pdf] Instructions GW01 WiFi Gateway for RF Controls, GW01, WiFi Gateway for RF Controls, Gateway for RF Controls, RF Controls, Controls

References

- **[User Manual](#)**