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GW01 GATEWAY INSTRUCTIONS

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.

Index

Page 4 Getting started
(Router requirements/Phone software etc)

Page 5 LCD / LED / Button legend

Page 6 Pairing your programmer to your gateway

Page 7 Pairing your thermostats to your programmer

Page 8 Downloading the EMBER App

Page 12 Pairing your gateway to your wireless internet

Page 15 Home setup

Page 19 Zone Control diagram

1 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 gateway can only support 2.4GHz wireless routers. It does not support 5GHz wireless routers.

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 WiFi 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

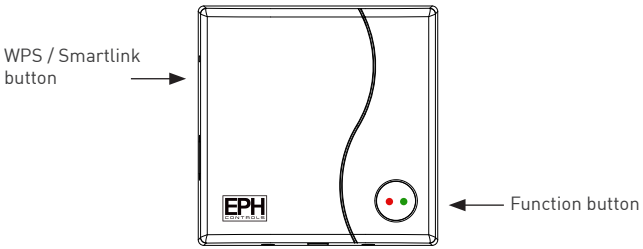
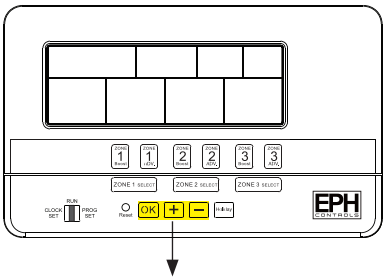


Figure (5-a): The gateway

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



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 ⊖ button for 5 seconds.
3. 'Wireless Connect' will appear on the screen. Figure (6-a)
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)
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)
9. Wait for the LEDs on the gateway to stop flashing.
10. Press the ok button.

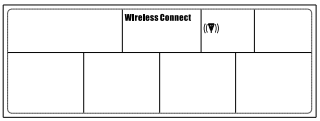


Figure (6-a): 'Wireless Connection' screen

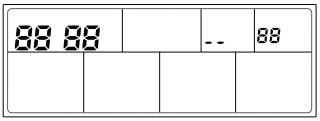


Figure (6-b): 'Gateway Connection' screen

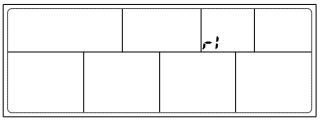


Figure (6-c): 'Gateway Connection' screen

* 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 above.

Pairing your thermostats to your programmer

Complete this step after pairing your programmer to your gateway

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

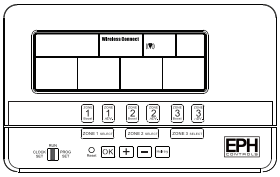


Figure (7-a) 'Wireless Connection' screen

Figure (7-b) Printed Circuit Board

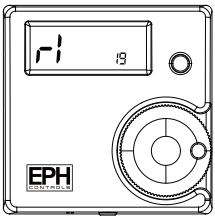


Figure (7-c) Zone screen

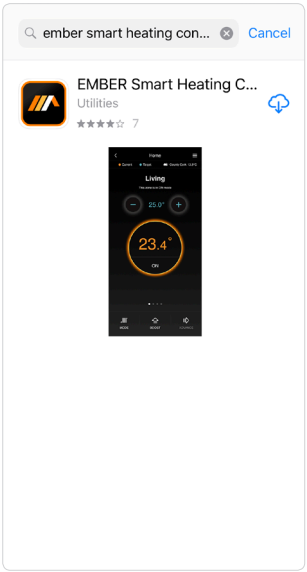
Downloading the EMBER App

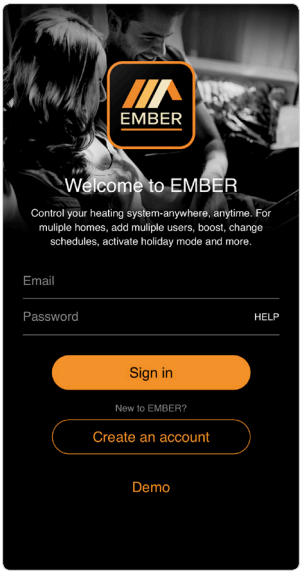
1. Go to the Apple App Store on your iPhone or the Google Play Store on your Android device and download the EPH Ember App.

   QR codes to the download links are available on the back cover.

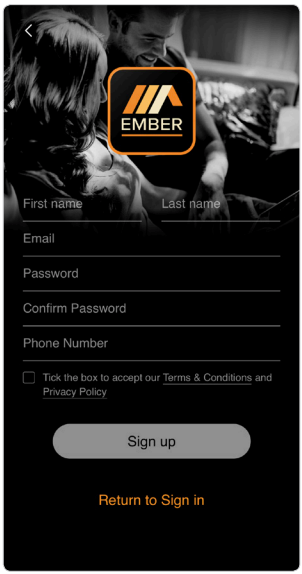
2. Once the app has been installed, open it.

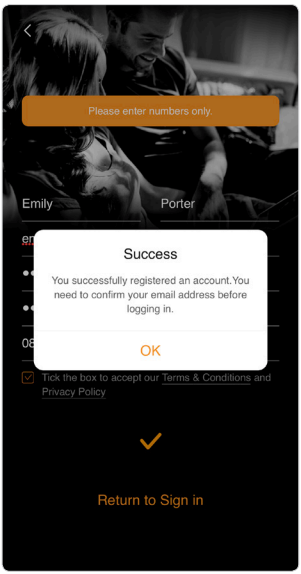
3. Select 'Create an account' to Sign up with your email address.





4. Enter your First name.
5. Enter your Last name.
6. Enter your Email address.
7. Enter your Password (Minimum 6 characters – including lowercase, uppercase and number)
8. Confirm your Password.
9. Enter your telephone number. (optional)
10. Tick the box to accept our Terms & Conditions and Privacy Policy.
11. Press 'Sign up'.





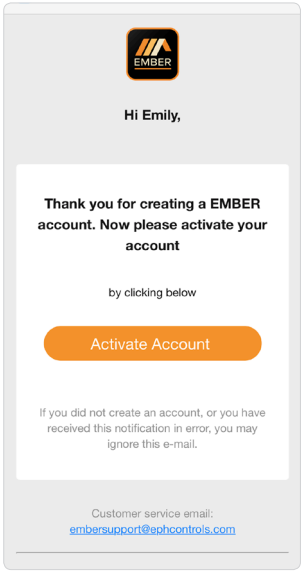
Downloading the EMBER App (Continued)

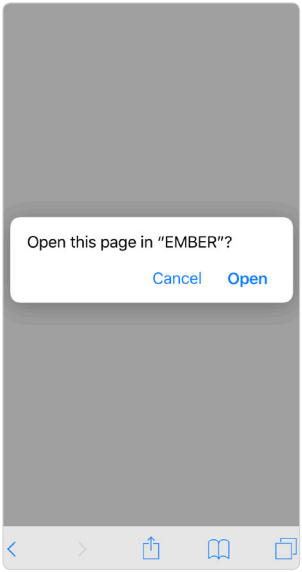
12. A confirmation email should arrive in your inbox from EMBER.

    This should take up to 2 minutes. If you do not receive the email, please search your Junk / Spam email folder.

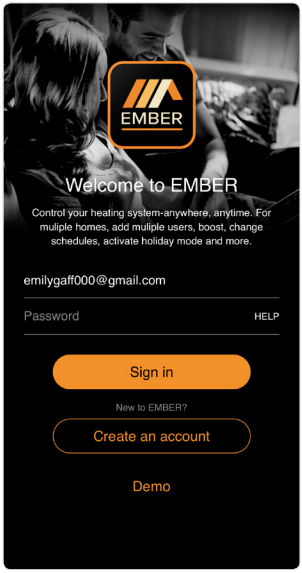
13. Open the email and press the embedded button 'Activate Account'.

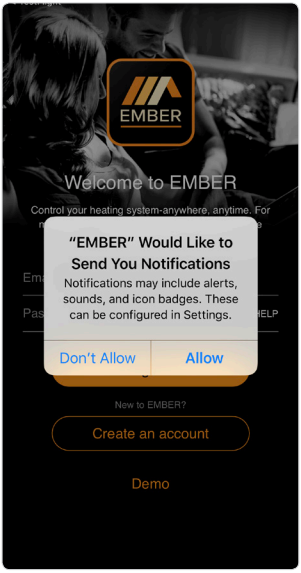
14. You will be directed to the EMBER App. Select 'Open' in EMBER. If you are not automatically directed to the App, manually open it and complete step 15.





15. When the App opens, enter your email address and password.
16. Press 'Sign in'.
17. Choose 'Allow' so EMBER App can send you notifications.



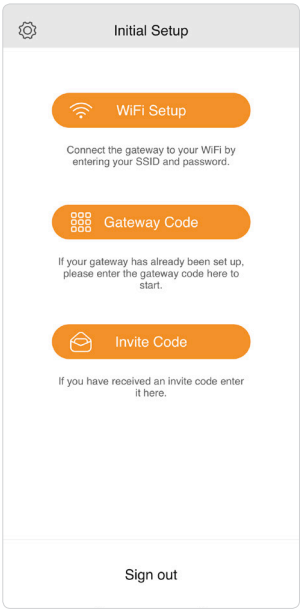


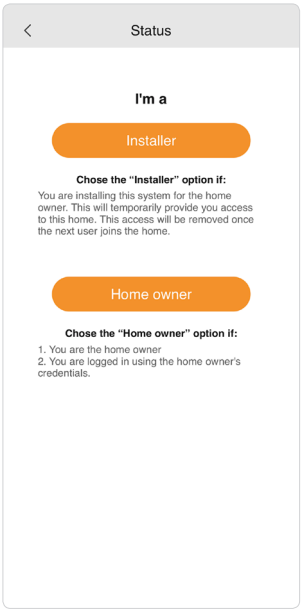
Pairing your gateway to your wireless internet

1. Press 'WiFi Setup' and you will be directed to the WiFi Setup screen.

   If the light on the gateway is green you can choose the Gateway Code.

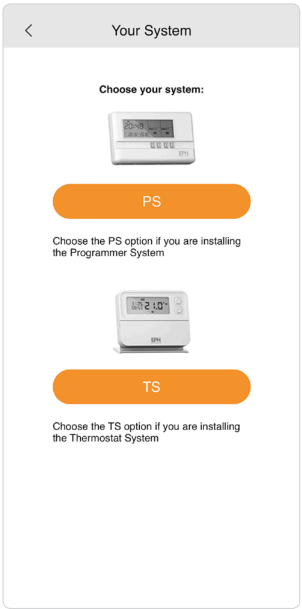
   If you have been given an invite code, press 'Invite Code' and you may then enter the code to access the home you have been invited to.





2. On the 'Your System' screen, you must choose the 'PS' (Programmer System) option.

   GW01 will not operate with the 'TS' (Thermostat System).



Pairing your gateway to your wireless internet (Continued)

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.

- - NOTE - -

After entering the WiFi router password in Step 4, do not press the continue button. Complete step 5 and then press continue button as per step 6.

4. Enter WiFi router password –
5. On the gateway:

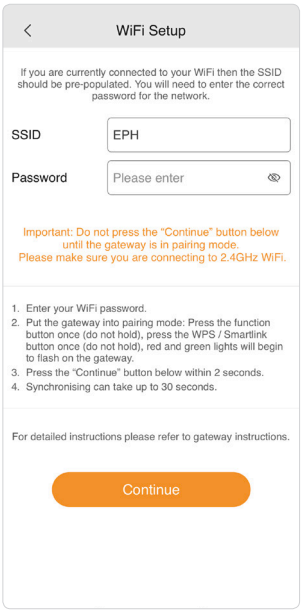
   Press the Function button once (do not hold).

   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'.

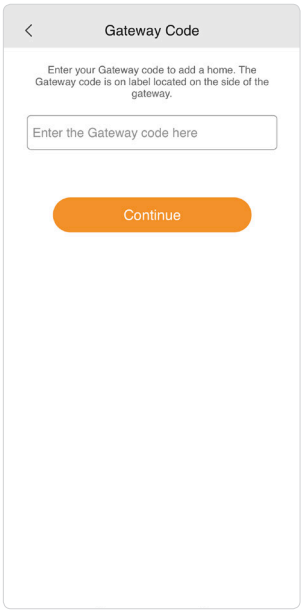
   When successful the lights on the gateway will be solid green and you will progress to the Gateway Code screen.

   Synchronising can take up to 30 seconds.
7. If pairing is unsuccessful, please repeat steps 5 & 6.
8. The Gateway now needs to be associated with your mobile device.



Home Setup

9. Enter the gateway code located on the gateway housing. Wait for the LEDs to stop flashing.
10. Press 'Continue' once only.



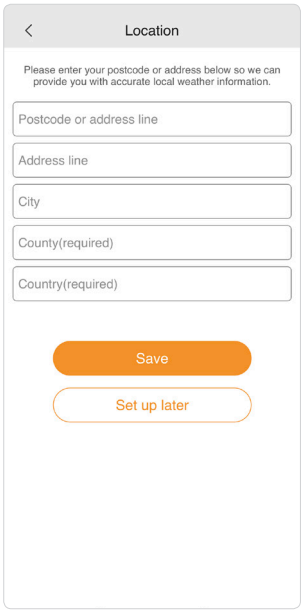
Home Setup appears on the the screen – this may take a moment.

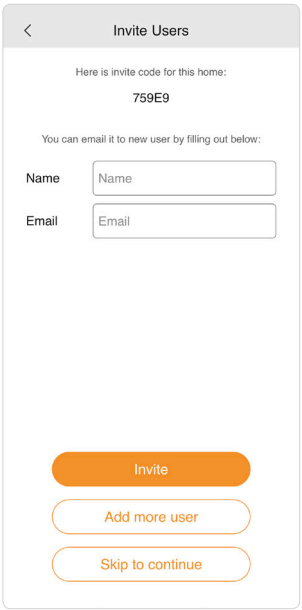
The number of zones connected to the programmer is detected and shown on the screen.

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 (Continued)

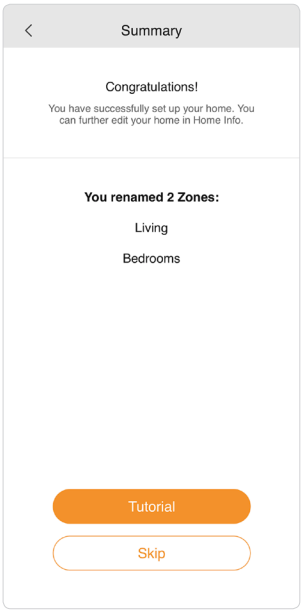
4. Enter the postcode or your address to set the location of your home.
5. Press 'Save'.
6. The Invite User screen will appear.
7. Invite other users if needed or press 'Skip to continue'.

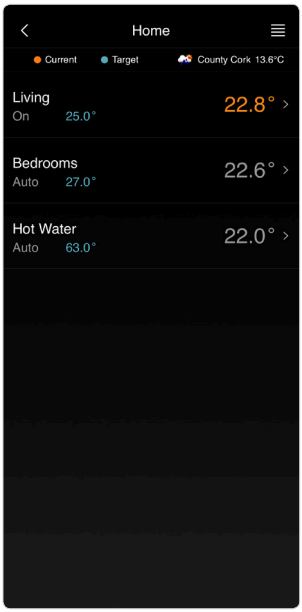




8. You will receive a summary confirming the changes that you have made.
9. Press 'Tutorial' to view the tutorials.*
10. Press 'Skip' to complete Home Setup.
11. The Home screen will appear with the relevant number of zones now able to be controlled from your mobile device.

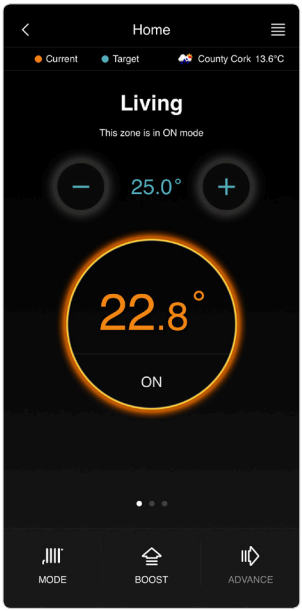
*Note: You can access the tutorials from the setting menu and burger menu in the EMBER App.



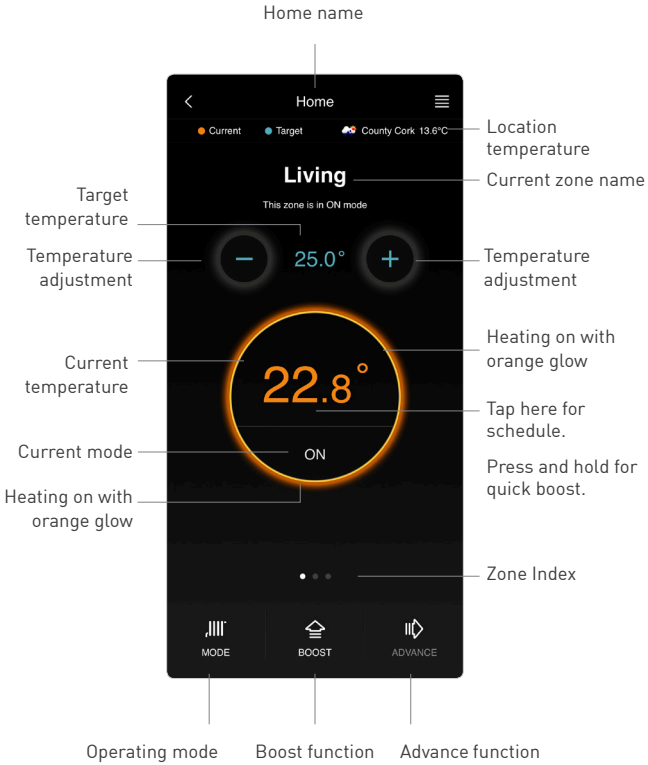


Home setup (Continued)

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



Zone control diagram



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