



evohome Controller

EN Installer Guide



R3 Protocol

Online Guides



info.honeywellhome.com/evohome

Thanks for choosing **evohome**

evohome means more comfort, and more control of your heating system. It's simple to install and easy to use.

Follow these instructions to set up the **evohome** system. Devices that need to be connected to the mains electricity supply should be installed by a competent person.

Before you start

Make sure you have all the devices you need for your system. If you used our 'Design your **evohome** system' guide, match each device to the room or zones in your plan. It's a good idea to carry out all the mains electrical and other wiring work first.

In this guide

Step 1: Wire up the heating system	1
Step 2: Set up your evohome Controller	3
Step 3: Power up and bind devices	6
Step 4: System test	13
Configuration and modification	16

Step 1: Wire up the heating system

The **evohome** Controller communicates with the other wireless devices in your heating system on a robust 868Mhz signal that is unaffected by common remote controls or WiFi.

Some of the wireless devices need to be mains powered or connected to external equipment (such as a boiler) in order to communicate with the **evohome** Controller.

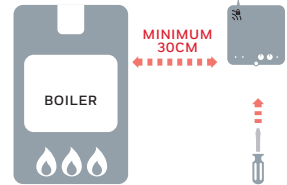
It's recommended that these items are installed first to simplify the binding process later in the setup. The **evohome** Controller will give on screen instructions when these devices should be powered up.

Installing the Wireless Relay Box (EIM)



Turn off at mains and isolate the supply before starting.

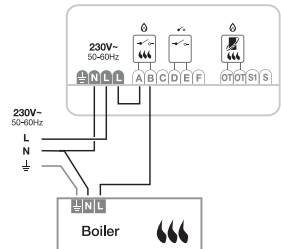
Refer to boiler instruction to locate the room thermostat terminals, determine if the boiler required a permanent live supply.



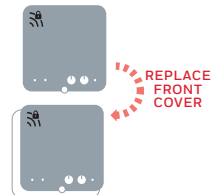
- 1 Mount the Wireless Relay Box on a non-metallic surface at least 30cm from your boiler, other wireless devices or metal objects

- 2 Undo the screw to remove the front cover.

- 3 Follow the wiring diagram to connect the Wireless Relay Box to your boiler's thermostat terminals and the mains electricity supply



- 4 Replace the cover



Step 2: Set up your **evohome** Controller

The **evohome** Controller has a guided configuration process to help you set up the zones for a single type of system.

If you skipped the "Guided Configuration" option when you first powered up the **evohome** Controller you can find it again in the Installation Menu
- press and hold the "Settings" button for 5 seconds.

Powering up your **evohome** Controller

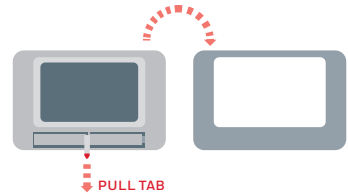


Your **evohome** Controller comes with *rechargeable batteries which are pre-charged allowing you to set-up the system while off the table stand or wall bracket.

Place the **evohome** Controller on the table stand or wall bracket for normal use.

*Only use the AA rechargeable batteries provided.

- 1 Remove the cover, remove the battery tab and replace the cover



- 2 Place it on the table stand or wall bracket
- 3 Once the batteries are fully charged, the **evohome** Controller can be easily removed from the table stand or wall bracket for ease of programming. After 30 minutes the **evohome** Controller will emit a beep to indicate that it should be replaced on the stand or wall bracket

Language selection and WiFi configuration



If you don't have the WiFi network details, or the homeowner doesn't require remote access you can skip the WiFi configuration and proceed with setting up the heating system.

WiFi can be configured later in the SETTINGS > WIFI SETTINGS menu.



Select you store



Get the App

- 1 Select a language for the **evohome** controller user interface
- 2 Follow the on-screen instructions to connect to a WiFi network. This enables automatic setting of the date and time for your location, as well as enabling remote connectivity via an Apple or Android Smartphone.
 - **To configure WiFi you will need the home WiFi network password**
- 3 Instruct the homeowner / user to visit **info.honeywellhome.com/evohome-app** to create an account, register the **evohome** Controller and download the app

To create an account and register the evohome Controller, the homeowner will need the MAC ID and CRC which can be found:

- On a label behind the front cover of the **evohome** Controller
- On screen during the WiFi set-up
- In the SETTINGS > WiFi SETTINGS menu after set-up has been completed



MAC ID

CRC

Step 3: Power up and bind devices

Using 'Guided Configuration' on the **evohome** Controller follow the on screen instructions and use this section to put the devices into binding mode.

When you bind a device they permanently store the connection and there should never be a need to rebind them again – even after a power cut.

If you skipped the initial set-up, you can find 'Guided Configuration' mode by pressing 'Setting' for 5 seconds.

If you have other devices to bind, you can see the full installation guide on **info.honeywellhome.com/evohome** – Your **evohome** Controller will give you on-screen instructions to bind the other components – just follow the bind instruction for each device in this manual.

Bind the wireless Relay Box (EIM) to control a Boiler



evohome
Controller

If you are NOT following GUIDED CONFIGURATION follow these steps on your **evohome** Controller display first:

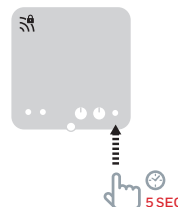
- 1 Press and hold 'Settings' ⚙️ for 3 seconds
- 2 Press the green tick 
- 3 Press SYSTEM DEVICES
- 4 Press BOILER CONTROL
- 5 Press BOILER RELAY.

If you do not have any boiler, go to radiator controller binding section. If the relay box was supplied in the sme box, it is prebound to Relay 1 and does not need to be bound.

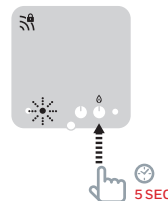
Make sure the Wireless Relay Box (EIM) is wired to the boiler and powered up.

To bind the Relay Box

- 1 If you need to clear the previous bindings press the reset button with a paperclip



- 2 Press and hold the chosen relay button for 5 seconds until the LED starts to blink



- 3 On the **evohome** Controller press the green bind button 
- 4 You should receive a SUCCESS message on the **evohome** Controller (if not go back and re-bind)

Power up and bind Radiator Controllers (EVO-TRV)



evohome
Controller

If you are NOT following GUIDED CONFIGURATION follow these steps on your **evohome** Controller display first:

- 1 Press and hold 'Settings' ⚙️ for 3 seconds
- 2 Press the green tick 
- 3 Press ADD ZONE
- 4 Type a name for the new zone and press the green tick 
- 5 Press RADIATOR VALVE
- 6 If you want to control the zone temperature with the **evohome** Controller (which needs to be located in that zone) press YES, otherwise press NO.

You must repeat these steps for each radiator controller.

When the new zone in the evohome controller is ready to bind

Power up the Radiator Controllers

- 1 Remove the top cover



- 2 Open the battery clip and insert the AA batteries supplied



- 3 Close the clip and replace the cover

Bind the Radiator Controllers (EVO-TRV)

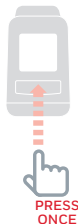
- 4 Press the  button once – it should say UNBOUND
-



- 5 Press and hold the  button for a further seconds until it says BIND
-



- 6 Press the  button once – it should say BINDING
-



- 7 You should receive a SUCCESS message on the **evohome** Controller (if not go back and re-bind)
- 8 The name of the allocated zone should appear on the EVO-TRV display when you press the  button
- 9 Either press the green tick  to add another radiator to the zone. Or press the red cross  if you don't need to add another radiator to the zone

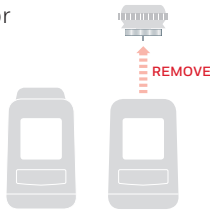
Install the Radiator Controllers (EVO-TRV)

- 1 Locate the room (zone) for the radiator controller

- 2 Slide the locking mechanism to the unlock position



- 3 Remove the adaptor from the bottom of the controller



- 4 Unscrew the black wheel fully anti-clockwise



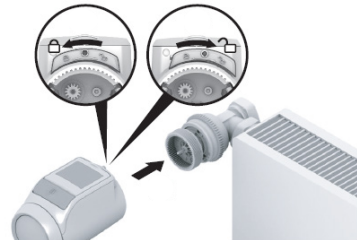
- 5 Remove any existing control on the radiator valve

- 6 Screw the white end of the adaptor on to the radiator valve

- 7 Push the controller fully on to the adaptor with the screen facing towards you



- 8 Slide the locking mechanism to the locked position



Selecting the adapter

The radiator controller fits on common radiator valves of the type M30 x 1.5. Adapters are required for some valve types.

- 1 Check whether an adapter is required and, if necessary, select the appropriate adapter
- 2 If necessary, screw the adapter tight with a screw

Brand	Illustration	Adapter
Honeywell-Braukmann, MNG, Heimeier, Oventrop valves M30 x 1.5		Not required
Danfoss RA		Supplied
Danfoss RAVL		Supplied

Brand	Illustration	Adapter
Comap		Supplied
Giacomini		Supplied

Step 4: System test

Now that all the devices are bound to your **evohome** Controller and installed in their final locations, check that the system works properly and that all the devices are responding to commands from the **evohome** Controller.

You can perform a simple functional check of the heating system by overriding the temperature of each zone to their minimum and maximum while listening for a response from the radiator (or zone) controllers and boiler. To save power the battery devices only communicate with the **evohome** Controller every four minutes therefore the system may not respond immediately to a manual temperature change.

Wireless communication check



To save power the battery devices only communicate with the **evohome** Controller every four minutes therefore the system may not respond immediately to a manual change.

To check the RF signal strength between the wireless devices and the **evohome** Controller go to RF COMMS CHECK in the **evohome** Controller Installer Menu and test each wireless device.

- 1 On the **evohome** Controller press and hold 'Settings' for 3 seconds
- 2 Press the green tick 
- 3 Press RF COMMS CHECK
- 4 Choose the devices you want to test

Mains Powered Wireless Devices

Mains powered devices do not need to be put into test mode and will automatically respond to the test message sent from the **evohome** Controller:



Wireless Relay Box (EIM)

- The Relay Box will flash the LED from 1 flash (poor) to 5 flashes (excellent) – no flashing means the Relay Box has not received a test signal from the **evohome** Controller



Radiator Controller (EVO-TRV)

- 1 Press the  button, the zone name is displayed



- 2 Press and hold the  button again for 5 seconds, the display should say BIND



- 3 Turn the dial to display RF CHECK



- 4 Press the  button, the display should flash CHECKING



- 5 Press the  button again, the display should flash SIGNAL and will display a signal strength bar and a rating from 1 (poor) to 5 (excellent) – 0 means the Radiator Controller has not received a test signal from the **evohome** Controller

- 6 To exit test mode turn the dial to exit and press the  button. It will also exit automatically after 10 minutes

Configuration and modification

Once you've completed these steps you're ready to start using your **evohome** system. You can also make parameter adjustments in the **evohome** Controller to match the exact requirements of the heating system. The operation and functions of the each zone can also be adjusted. These can be found in the Installer Menu. Components can be added or replaced by editing the zones or system in the Installer menu.

For more information about configuration, please download the full installation guide on info.honeywellhome.com/evohome website.

For more information on Smart Heat Zoning for your home, visit:
info.honeywellhome.com/evohome



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