Honeywell Home

Evohome
Wi-Fi Zone Controller

EN Installation Guide

Online Guides
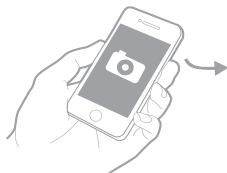
getconnected.honeywellhome.com

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

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 (BDR91)


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.

MINIMUM 30CM
BOILER

1. Mount the Wireless Relay Box on a nonmetal surface at least 30cm from your boiler, other wireless devices or metal objects
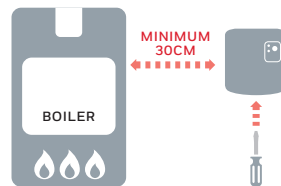
2. Release the clip on the bottom to open the front cover

BDR91   A-B:5(3)A A-C:5(3)A
230V~ 50-60Hz
N L L   A B C
<5A
L
N
N L

3. Follow the wiring diagram to connect the Wireless Relay Box to your boiler's thermostat terminals, zone valve or sundial valve, and to the mains electricity supply
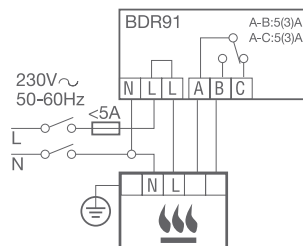
4. Replace the cover

REPLACE FRONT COVER
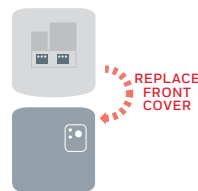
Step 2: Set up your **evohome** Controller

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 if again in the Installation Menu - press and hold the "Settings" button for 5 seconds.
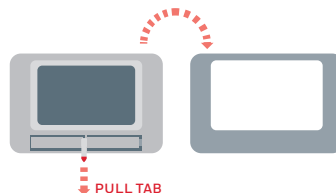
Powering up your **evohome** Controller

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

PULL TAB

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

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Language selection and WiFi configuration

Download on the
App Store

GET IT ON
Google Play

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 www.getconnected.honeywellhome.com 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

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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 **getconnected.honeywellhome.com** - 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 (BDR91) to control a Boiler

If you do not have any boiler, go to radiator controller binding section.

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
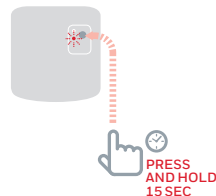
4. Press BOILER CONTROL

5. Press BOILER RELAY.

Make sure the Wireless Relay Box (BDR91) is wired to the boiler and powered up.

To bind the Relay Box

1. Press and hold the button for 15 seconds (until the red LED blinks rapidly) to clear any previous binding data

PRESS AND HOLD 15 SEC

2. Press and hold the button again for 5 seconds (until the red LED blinks slowly)

PRESS AND HOLD 5 SEC
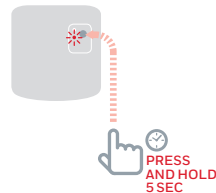
3. On the **evohome** Controller press the green bind button ⸱))) (⸱

4. You should receive a SUCCESS message on the **evohome** Controller (if not go back and re-bind)

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Power up and bind Radiator Controllers (HR91 or HR92)

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 (HR92)

④ Press the ☰ button once – it should say UNBOUND

PRESS ONCE

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

PRESS AND HOLD 5 SEC

⑥ Press the ☰ button once – it should say BINDING

PRESS ONCE

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 HR92 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

Bind the Radiator Controllers (HR91)

④ Press binding button for 5 secs

PRESS AND HOLD 5 SEC

⑤ Right LED will flash Amber for up to 2 mins whilst binding

⑥ Successful binding is confirmed by right LED showing permanent green for 5 secs

⑦ You should receive a SUCCESS message on the **evohome** Controller (if not go back and re-bind)

⑧ 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

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
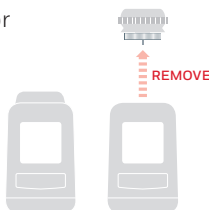
   REMOVE

4. Unscrew the black wheel fully anti-clockwise

   ROTATE

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 Slide the adapter onto the radiator valve and turn it until you feel it click into place

3 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 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 (BDR91)

• The Relay Box will flash the red 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

Battery Powered Wireless Devices

Battery powered devices need to be put into test mode to send and receive a test signal:

Radiator Controller (HR92)

① Press the ▦ button, the zone name is displayed

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

PRESS AND HOLD 4 SEC

③ Turn the dial to display RF CHECK

"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

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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 getconnected.honeywellhome.com web site.

Safety information

Approvals

EMC compliance considerations

Refer to Code of Practice standards EN61000-5-1 and -2 for guidance.

Caution: Isolate power supply and make safe before wiring the unit to prevent electric shock and equipment damage. Installation should be carried out by a competent person.**Location of device**

evohome Controller should be installed in an open space for best performance as it is a radio frequency device. Leave at least 30cm distance from any metal objects including wall boxes and at least 1 metre from any other electrical equipment eg. radio, TV, PC etc. Do not mount onto metal wall boxes.

For the best temperature control performance the **evohome** Controller should not be placed near heat or cool sources (e.g. cooker, lamp, radiator, doorways, windows).

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WEEE directive 2012/19/EU

Waste Electrical and Electronic Equipment directive

- At the end of the product life dispose of the packaging and product in a corresponding recycling centre.
- Do not dispose of the unit with the usual domestic refuse.
- Do not burn the product.
- Remove the batteries.
- Dispose of the batteries according to the local statutory requirements and not with the usual domestic refuse.

evohome Controller technical data

Electrical

Table Stand Power supply	Input voltage: 100 - 240V $\sim$ 50/60Hz 0.2A Output voltage: +5V $=$ 1A
Wall Bracket Power supply	Input voltage: 230VAC ±10% Output voltage: 4VDC ±0.2V, max 2.6W
Room unit power supply input	5V $=$ ±0.2V, max. 2.6W
Low voltage cable length (max)	10m, 1.0mm^2; 5m, 0.5mm^2
Battery type (rechargeable)	Type AA 1.2V NiMH 2000 - 2400mAh

RF Communication

RF operation band	ISM (868.0 — 870.0) MHz, Receiver Category 2
RF communication range	30m in a residential building environment
Wireless LAN	IEEE 802.11b,g,n (2.400 - 2.485 GHz)

Environmental and Standards

Operating temperature	0 to 40ºC
Storage temperature	–20 to +50ºC
Humidity	10 to 90% relative humidity non condensing
IP Protection Class	IP30

Mechanical

Dimensions	136 x 93 x 20mm (WxHxD)

For more information on Smart Heat Zoning for your home, visit:

getconnected.honeywellhome.com

EC DECLARATION OF CONFORMITY

Hereby, **Pittway Sarl** declares that the radio equipment **evohome controller** is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: **http://hwllhome.co/DoC**

WEEE DIRECTIVE 2012/19/EU

At the end of the product life dispose of the packaging and product in a corresponding recycling centre. Do not dispose of the unit with the usual domestic refuse. Do not burn the product.

CE

These products have no
restrictions in EU countries

VIII
+5%
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