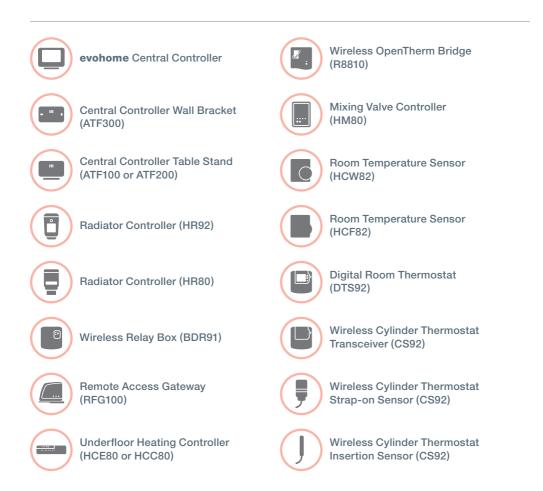
Honeywell



evohome Installation Guide



Icon key



Thanks for choosing evohome

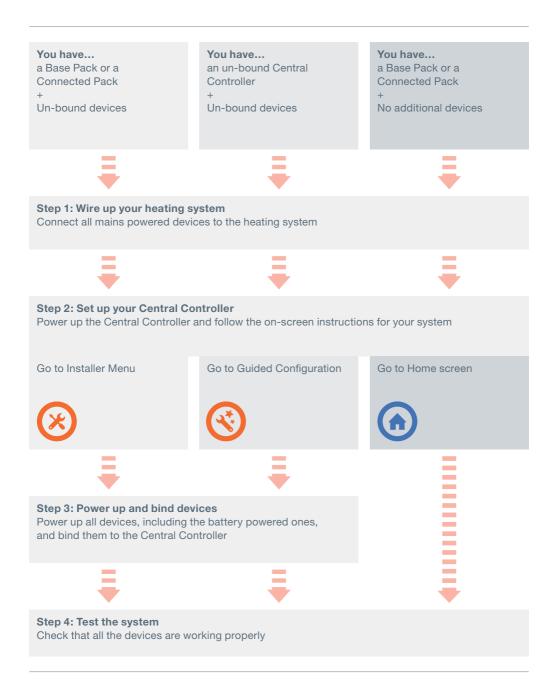
evohome means more comfort, and more control of the heating system. It's simple to install and easy to use.

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	3
Step 2: Set up your Central Controller	9
Step 3: Power up and bind devices	13
Step 4: System test	29
Configuration and modification	37
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Step 1: Wire up the heating system

evohome communicates using wireless on a robust 868Mhz signal that is unaffected by common remote controls or Wifi.

Some devices need mains power or to be connected to external equipment and it's best to wire up these items first to simplify the binding process later in the setup. The **evohome** controller will give on screen instructions when these should be powered up.

Before you power up your Central Controller and install the radiator controllers, it's best to install any devices which are mains powered or need specific installation.

In this section	
Wireless Relay Box (BDR91)	4
Wireless Cylinder Thermostat (CS92)	5
Remote Access Gateway (RFG100)	7
Mixing Valve Controller (HM80), Underfloor Heating Controller (HCE80/HCC80),	
Opentherm Bridge (R8810)	8

Wireless Relay Box (BDR91)

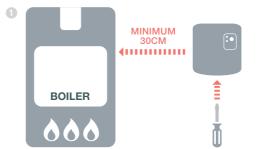
••

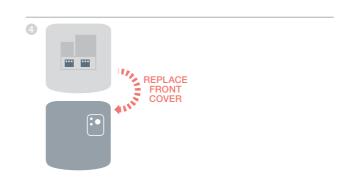


If you're fitting a Wireless Relay Box (BDR91) to your boiler, zone valve or Sundial valve

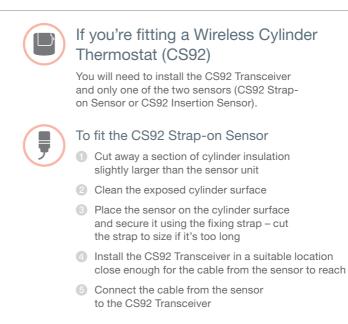
- Mount the Wireless Relay Box on a nonmetal surface at least 30cm from your boiler, other wireless device or metal objects
- 2 Release the clip on the bottom to open the front cover
- Sollow the wiring diagram (see Appendix: Figures 5-10) to connect the Wireless Relay Box to your boiler's thermostat terminals, zone valve or sundial valve, and to the mains electricity supply
- 4 Replace the cover

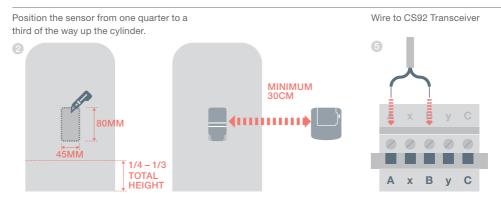
Refer to boiler instruction to locate the room thermostat terminals, determine if the boiler required a permanent live supply.





Wireless Cylinder Thermostat (CS92)

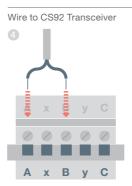




Wireless Cylinder Thermostat (CS92) continued

To fit the CS92 Insertion Sensor

- Fit in the cylinder immersion well with suitable fittings to provide strain relief and prevent accidental removal
- If the sensor doesn't fit tightly in the immersion well fill the space with heat-conductive compound to ensure maximum heat transfer
- Install the CS92 Transceiver in a suitable location close enough for the cable from the sensor to reach
- ④ Connect the cable from the sensor to the CS92 Transceiver

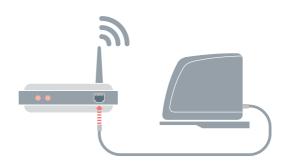


Remote Access Gateway (RFG100)



If you're fitting a Remote Access Gateway (RFG100)

Connect the Remote Access Gateway to the home's internet router using the ethernet cable supplied



Mixing Valve Controller (HM80), Underfloor Heating Controller (HCE80/HCC80), Opentherm Bridge (R8810)



If you're fitting a Mixing Valve Controller (HM80), Underfloor Heating Controller (HCE80/HCC80), OpenTherm Bridge (R8810)

Refer to the installation instructions supplied with each device

Step 2: Set up your Central Controller

The Central Controller has a guided configuration process to help you set up the zones for a single type of system. For mixed systems (i.e. Under Floor Heating zones plus Radiator zones) use Guided Configuration for the larger system then "Add Zones" in the installer menu.

To add a stored hot water system use the guided configuration Stored Hot Water option in the installer menu.

The following instructions cover the full configuring process for a zone, but if you are using Guided Configuration your Central Controller will give you on-screen instructions to bind the other components to the Central Controller – just follow the bind instruction for each device in this manual.

In this section Powering up your Central Controller

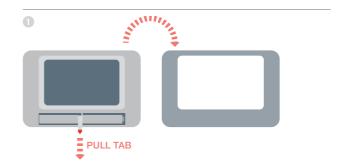
Powering up your Central Controller



*Only use the AA rechargeable batteries provided

First, power up the Central Controller

- Remove the cover, remove the battery tab and replace the cover
- Place it on the table stand or wall bracket
- 3 Once the batteries are fully charged, the Central Controller can be easily removed from the table stand or wall bracket for ease of programming. After 30 minutes the Central Controller will emit a beep to indicate that it should be replaced on the stand or wall bracket



Then to set up the Central Controller

- Follow the on-screen instructions to set up the language, date and time
- Now choose the correct option for the system you're installing:

For a **Base Pack** or a **Connected Pack** and NO additional devices we recommended pressing 'Home' – then go to "Step 4: System test" on page 29.



For a **Base Pack** or a **Connected Pack**, PLUS un-bound devices we recommended pressing 'Installation Menu' to add the un-bound devices – follow "Step 3: Power up and bind devices" on page 13.



For an un-bound Central Controller, plus unbound devices we recommended pressing 'Guided Configuration' to add the un-bound devices – follow "Step 3: Power up and bind devices" on page 13. Step 2: Set up evotouch

Step 3: Power up and bind devices

If you bought a Base Pack or a Connected Pack only — your devices are already bound. Go to Step 4.

If you bought an unbound Central Controller, plus other devices and are using 'Guided Configuration' follow the instructions on your Central Controller screen and use this section to put the devices into binding mode.

If you bought a Base Pack or a Mobile Connected Pack, plus other devices, you need to power up all devices and then bind them to the Central Controller using the 'Installation Menu'. It may be easier to power up and bind some devices while they're close to the Central Controller – you can install them in their assigned zones later.

Follow the instructions for the device(s) you're going to bind. When you bind a device to the Central Controller the devices permanently store the connection and there should never be a need to rebind them even after a power cut.

In this section	
Radiator Controllers (HR92)	14
Wireless Cylinder Thermostat (CS92)	16
Remote Access Gateway (RFG100)	18
Wireless Relay Box (BDR91)	19
Radiator Controller (HR80)	22
Underfloor Heating Controller (HCE80 or HCC80)	24
Mixing Valve Controller (HM80)	27

Radiator Controllers (HR92)

0

If you are NOT following GUIDED CONFIGURATION follow these steps on your Central Controller display

Central Controller

- 1. Press and hold 'Settings'
- 2. Press the green tick
- 3. Press ADD ZONE

first:

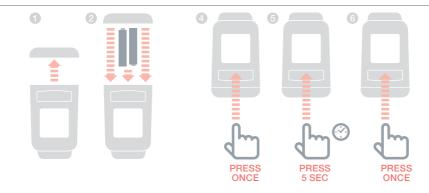
- 4. Press the zone you want to add the Radiator Controller to
- 5. Rename the zone if required and/or press the green tick
- 6. Press RADIATOR VALVE
- If you want to control the zone temperature with the Central Controller (which needs to be located in that zone) press YES, otherwise press NO.

You must repeat these steps for each radiator controller.

Power up and bind Radiator Controllers (HR92) – Your evo Zone Kit

Bind the Radiator Controllers (HR92)

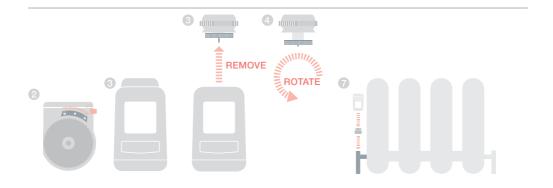
- Remove the circular top cover
- Open the battery clip and insert the AA batteries supplied
- Close the clip and replace the cover
- Press the is button once it should say UNBOUND
- Press and hold the button for a further 5 seconds until it says BIND
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)
- In the name of the allocated zone should appear on the HR92 display when you press the = button
- Either press the green tick is to add another radiator to the zone. Or press the red cross is if you don't need to add another radiator to the zone





Install the Radiator Controllers (HR92)

- 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
- Unscrew the black wheel fully anticlockwise
- 6 Remove any existing control on the radiator valve
- 6 Screw the white end of the adaptor on to the radiator valve
- Push the controller fully on to the adaptor with the screen facing towards you
- 8 Slide the locking mechanism to the locked position



Wireless Cylinder Thermostat (CS92)

Central Controller

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

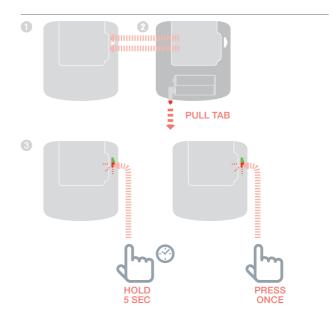
- 1. Press and hold "Settings" 🇱 for 3 seconds
- 2. Press the green tick
- 3. Select GUIDED CONFIGURATION
- 4. Press STORED HOT WATER CONFIGURATION
- 5. Press the green tick



Power up and bind a Wireless Cylinder Thermostat Transceiver (CS92)

On the CS92 Transceiver

- Remove the CS92 Transceiver cover
- 2 Remove the battery tab and replace the cover
- On the CS92 Transceiver press and hold the button for 5 seconds. The green light should come on and the red light should flash
- 4 Press the button again
- Sou should receive a SUCCESS message on the Central Controller (if not go back and re-bind)
- 6 Choose the correct hot water valve type for the system you're installing and follow the on screen instructions

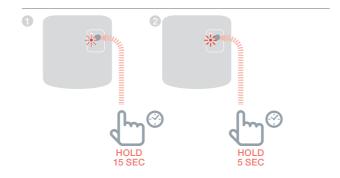


You may need to refer to the wiring diagrams in the Appendix

Ð	1

To bind the Wireless Relay Box (BDR91)

- On the Wireless Relay Box, press and hold the button for 15 seconds (until the red LED blinks rapidly) to clear any previous binding data
- Press and hold the button again for 5 seconds (until the red LED blinks slowly)
- 3 On the Central Controller press the green bind button .
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Remote Access Gateway (RFG100)



Central Controller display first: 1. Press and hold "Settings" for 3

- "Settings" 🌣 for 3 seconds
- 2. Press the green tick
- 3. Select ADD GATEWAY

Power up and bind a Remote Access Gateway (RFG100)

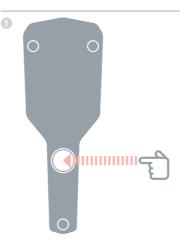
Connect the Gateway to the power supply and turn on the power.

To bind the Remote Access Gateway (RFG100)

- Press and hold the button on the base of the gateway unit until you see a flashing light next to the •))
- On the Central Controller press the green bind button <a>(</>(</>(</>(</>(</>())))))
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)

Now you need to set up a user account and download the smartphone app.

Go to **www.mytotalconnectcomfort.com** and follow the instructions there.



Wireless Relay Box (BDR91)



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

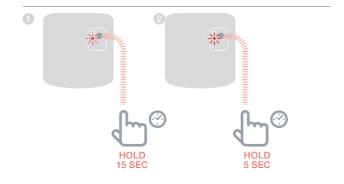
- 1. Press and hold 'Settings' for 3 seconds
- 2. Press the green tick
- 3. Press SYSTEM DEVICES
- 4. Press the button next to 'Boiler Demand'
- 5. Press BOILER RELAY or OPENTHERM BRIDGE



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

To bind a Relay Box or OpenTherm Bridge

- Press and hold the button for 15 seconds (until the red LED blinks rapidly) to clear any previous binding data
- Press and hold the button again for 5 seconds (until the red LED blinks slowly)
- On the Central Controller press the green bind button <a>()
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Wireless Relay Box (BDR91) continued



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

- 1. Press and hold "Settings" 🏠 for 3 seconds
- 2. Press the green tick
- 3. Press ADD ZONE
- 4. Press the zone you want to add the controller to
- Rename the zone if required and/or press the green tick
- 6. Press ZONE VALVES



Power up and bind a Wireless Relay Box (BDR91) to control a Zone Valve

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

If you want to control the zone temperature with the Central Controller (the Central Controller needs to be located in that zone) press YES, otherwise press NO and bind a sensor – either Digital Room Thermostat (DTS92) or Room Temperature Sensor (HCW82/HCF82).



To bind the Digital Room Temperature Sensor (DTS92)

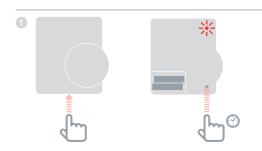
- Press and hold the power button for 2 seconds to put the unit into standby
- Press the up and down arrows together for three seconds – it should say INst
- In Press the down arrow it should say COnt
- In Press the up arrow three times it should say CLr
- Press the power button once to clear any previous binding data
- 6 Press the up arrow it should say COnt
- Press the power button once to send the binding signal to the Central Controller
- Sou should receive a SUCCESS message on the Central Controller (if not go back and re-bind)





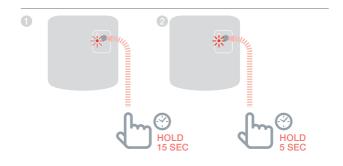
To bind a Room Temperature Sensor (HCW82 or HCF82)

- Press the bind button on the bottom right hand corner of the unit once. The red LED light will flash
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Then, on the Wireless Relay Box (BDR91)

- Press and hold the button for 15 seconds (until the red LED blinks rapidly) to clear any previous binding data
- Press and hold the button again for 5 seconds (until the red LED blinks slowly)
- On the Central Controller press the green bind button <a>()
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Radiator Controller (HR80)

Central Controller

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

- On the Central Controller press and hold "Settings"
 for 3 seconds
- 2. Press the green tick
- 3. Press ADD ZONE
- 4. Press the zone you want to add the controller to
- Rename the zone if required and/or press the green tick
- 6. Press RADIATOR VALVE

Power up and bind a Radiator Controller (HR80)

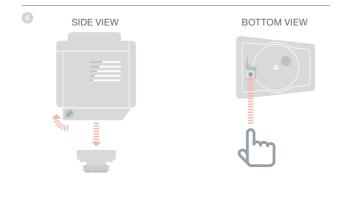
If you want to control the zone temperature with your Central Controller (the Central Controller needs to be located in that zone) press YES, otherwise press NO and bind the sensor.

On the HR80, you need to bind the sensor and actuator separately

Power up the Radiator Controller (see HR80 instructions)

To bind the sensor

- On the Central Controller press the green bind button <a>()
- 3 Turn release clips on each side of the Radiator Controller to remove the bottom plate
- On the underside of the Radiator Controller press the recessed bind button
- The Radiator Controller screen should briefly show a flashing RF icon (m) then SYNC when successful. The Central Controller will also show if binding was successful (if not go back and re-bind)



To bind the actuator

- Press the bind button on the Radiator Controller (if there are multiple HR80's in the zone, do this to all of them). The screen should show a flashing RF icon (
- On the Central Controller press the green bind button <a>()
- Check that (all) the Radiator Controllers display SYNC. If a Radiator Controller does not display SYNC and the flashing RF icon (m) remains, press back on the Central Controller and send the bind signal again
- In Press the next arrow on the Central Controller
- Press the green tick is to add another radiator to the zone - OR - Press the red cross if you don't need to add another radiator to the zone

Underfloor Heating Controller (HCE80 or HCC80)



If you are NOT following GUIDED CONFIGURATION follow these steps on your Central Controller display once the underfloor heating controller and sensors have been fitted:

- 1. On the Central Controller press and hold "Settings" 🎝 for 3 seconds
- 2. Press the green tick
- 3. Press ADD A ZONE
- 4. Press the zone you're adding the controller to then select UNDERFLOOR HEATING
- 5. You need to install a sensor (HCW82, HCF82, DTS92) in each zone controlled by the underfloor heating controller and bind it to the Central Controller.

You need to repeat this process for every zone that uses underfloor heating.



Make sure the zone you're adding on the Central Controller corresponds to the correct underfloor heating zone.

Power up and bind an Underfloor Heating Controller (HCE80 or HCC80)

If you want to control the zone temperature with your Central Controller (the Central Controller needs to be located in that zone) press YES, otherwise press NO and bind a sensor – either Digital Room Thermostat (DTS92) or Room Temperature Sensor (HCW82/HCF82).



To bind the Digital Room Temperature Sensor (DTS92)

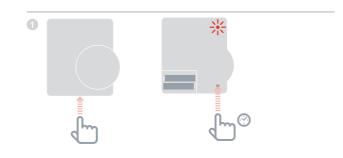
- Press and hold the power button for 2 seconds to put the unit into standby
- Press the up and down arrows together for three seconds – it should say INst
- In Press the down arrow it should say COnt
- 4 Press the up arrow three times it should say CLr
- Press the power button once to clear any previous binding data
- 6 Press the up arrow it should say COnt
- Press the power button once to send the binding signal to the Central Controller
- Sou should receive a SUCCESS message on the Central Controller (if not go back and re-bind)





To bind a Room Temperature Sensor (HCW82 or HCF82)

- Press the bind button on the bottom right hand corner of the unit once. The red LED light will flash
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



CONTINUED ON NEXT PAGE

Underfloor Heating Controller (HCE80 or HCC80) continued

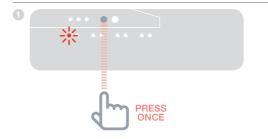
Then on the underfloor controller

- Press the bind button (n) until the bind button light comes on and the zone number light flashes red
- On the Central Controller, press the green bind button <a>()

If the zone light turns solid green the binding is successful

If the zone light turns solid red continue with these instructions

- 3 Press the back arrow on the Central Controller
- Press the bind button (n) on the Underfloor Heating Controller – the zone light should flash green
- On the Central Controller, press the green bind button <a>()
- 6 The zone light on the Underfloor Heating Controller should now be solid green
- System 5 (Section 2) Solution (Section 2) Soluti



Mixing Valve Controller (HM80)



If you are NOT following GUIDED CONFIGURATION follow these steps on your Central Controller display once the Mixing Valve Controller and sensor have been installed:

- 1. On the Central Controller press and hold "Settings" 🎝 for 3 seconds
- 2. Press the green tick
- 3. Select ADD A ZONE
- 4. Select the zone you're adding the controller to then select MIXING VALVE
- If you want to control the zone temperature with your Central Controller (the Central Controller needs to be located in that zone) YES, otherwise press NO and bind the sensor.



Power up and bind a Mixing Valve Controller (HM80)

A Mixing Valve Controller should only be fitted by a qualified fitter. Unless you're using the Central Controller as a sensor, you need to install a sensor (HCW82, HCF82 or DTS92) before binding the controller to the Central Controller.



To bind the Digital Room Temperature Sensor (DTS92)

- Press and hold the power button for 2 seconds to put the unit into standby
- Press the up and down arrows together for three seconds – it should say INst
- In Press the down arrow it should say COnt
- Press the up arrow three times it should say CLr
- Press the power button once to clear any previous binding data
- 6 Press the up arrow it should say COnt
- Press the power button once to send the binding signal to the Central Controller
- Sou should receive a SUCCESS message on the Central Controller (if not go back and re-bind)

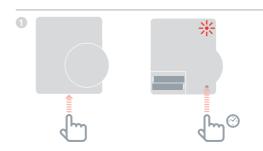


CONTINUED ON NEXT PAGE



To bind a Room Temperature Sensor (HCW82 or HCF82)

- Press the bind button on the bottom right hand corner of the unit once. The red LED light will flash
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Then on the Mixing Valve Controller

- Press and hold both buttons on the Mixing Valve Controller for 4 seconds until the red light flashes
- 2 On the Central Controller press the green bind button <a>()
- You should receive a SUCCESS message on the Central Controller (if not go back and re-bind)



Step 4: System test

Now that all the devices are bound to your Central Controller and installed in their final locations, check that the system works properly and that all the devices are responding to commands from the Central 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 Central Controller every four minutes therefore the system may not respond immediately to a manual temperature change.

In this section

Advanced RF communication check Mains Powered Wireless Devices Battery Powered Wireless Devices

30

30

31

Advanced RF communication check



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

- On the Central Controller press and hold 'Settings' for 3 seconds
- Press the green tick
- 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 Central Controller:



Wireless Relay Box (BDR91)

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



Remote Access Gateway (RFG100)

 The Gateway will flash the green LED from 1 flash (poor) to 5 flashes (excellent) – no flashing means the Gateway has not received a test signal from the Central Controller



Underfloor Heating Controller (HCE80/HCC80)

 The Underfloor Heating Controller will flash the green LED for the zone you are testing from 1 flash (poor) to 5 flashes (excellent) – no flashing means the Underfloor Heating Controller has not received a test signal from the Central 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
- Press and hold the is button again for 5 seconds
- I Turn the dial to display TEST

The Central Controller will display the signal strength (poor to excellent) and the Radiator Controller 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 Central Controller.

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



Advanced RF communication checks continued

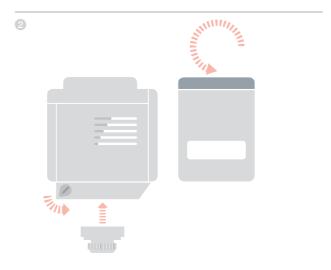


Radiator Controller (HR80)

- Separate the Radiator Controller from the adaptor on the radiator
- 2 Turn the adjustment dial clockwise (approx two full rotations) until TEST is displayed

The Central Controller will display the signal strength (poor to excellent) – nothing on the Central Controller display means the Radiator Controller has not received a test signal from the Central Controller.

To exit test mode remove and reinsert the batteries from the Controller. It will exit automatically after 5 minutes.





Digital Room Thermostat (DTS92)

- 1 Put Room Thermostat into standby mode (show icon)
- Press up and down together for 3 seconds
- In Press down once, the display should say CONT
- Press down for 3 seconds, the display should say TEST

The Central Controller will display the signal strength (poor to excellent) and the Room Thermostat will display a signal strength rating from 1 (poor) to 5 (excellent) – 0 means the Room Thermostat has not received a test signal from the Central Controller.

5 To exit test mode, press off on Room Thermostat for 5 seconds. It will exit automatically after 10 minutes.



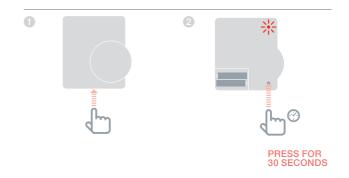
Advanced RF communication check continued



- Room Temperature Sensor (HCF82 or HCW82)
- Remove the cover from the sensor
- Press and hold the bind button until the red LED goes off (approx 30 seconds)
- 3 The red LED will flash each time it sends a test message

The Central Controller will display the signal strength (poor to excellent) – no flashing means the Temperature Sensor has not received a test signal from the Central Controller.

To exit test mode, press the bind button on the Temperature Sensor. It will exit automatically after 5 minutes.



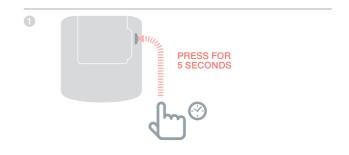


Wireless Cylinder Thermostat (CS92A)

- 1 Press the button on the Cylinder Thermostat transceiver
- The green light should come on. If it doesn't, reinsert the batteries and try again

The Central Controller will display the signal strength (poor to excellent) and the transceiver should flash the red LED from 1 flash (poor) to 5 flashes (excellent) – no flashing means the transceiver has not received a test signal from the Central Controller.

To exit test mode press the button on the transceiver.



Step 4: System test

Configuration and modification

Once you've completed these steps you're ready to start using evo. You can also make parameter adjustments in the Central 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.

In this section
Parameters and control features
Adding and replacing components in an existing system

38 39

Parameters and control features

Once you've completed these steps you're ready to start using evo. The user guide gives you instructions for personalising the settings on the Central Controller.

You can also make parameter adjustments on your Central Controller to match the exact requirements of the heating system. These can be found in the Installer Menu.

- On the Central Controller press and hold 'Settings' for 3 seconds
- Press the green tick
- Press PARAMETER SETTINGS and choose the parameter you want to adjust:
 - Internal Sensor Offset
 - Cycle Rate
 - Minimum On Time
 - Fail Safe
 - Optimisation
- Hot Water Parameters

For more details on parameters visit www.evohome.honeywell.com

Adding and replacing components in an existing system

Adding and replacing components in an existing system

- On the Central Controller press and hold "Settings" for 3 seconds
- 2 Press the green tick
- To change a device in a zone press ZONE SETTINGS and select the zone name To add or change an actuator
- Press the application button then next and follow the instructions to bind a new actuator
- To change the sensor press the sensor button, select the type of sensor or next and follow the instructions to bind a sensor. If the old product is not required in the system remember to remove the batteries at it may still try to communicate with the system.

To change a boiler relay, system valve, hot water component or remote gateway

- Press SYSTEM DEVICE
- Select the type of device and follow the instructions to bind. If the old product is not required in the system remember to remove the power at it may still try to communicate with the system.

Wiring diagrams, heating system schematics

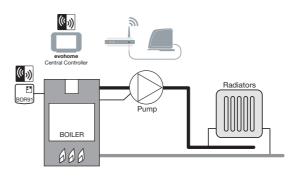
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Sample evo systems

Single zone

The Central Controller is the sensor for the whole home which is controlled to the same time and temperature schedule.

This system also includes wireless connectivity, which is available for any configuration.



Honeywell S plan 2 two-port valves

There are two zone valves – one for stored hot water one for central heating. The Central Controller is the sensor for the whole home which is controlled to the same time and temperature schedule. The valves open when needed. The boiler is operated via a wired junction box.

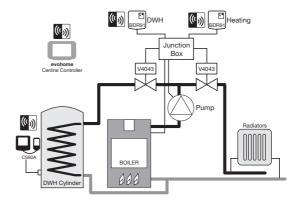


Figure 2 Honeywell S plan

Figure 1 Single zone system



Figure 3 Honeywell Y plan

Honeywell Y plan 1 three-port mid-position valve

The operation is identical to the S plan but it uses a single three-port or mid position valve.

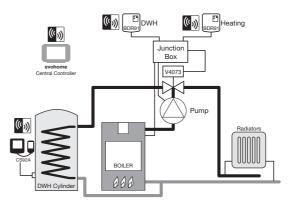
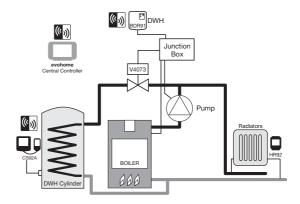


Figure 4 Stored hot water and zoned heating system. This system needs HR92s or other zoning solutions for the radiators.



Wiring diagrams

Connecting a wireless boiler relay

A basic boiler

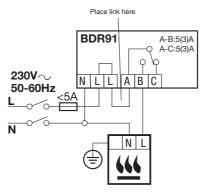


Figure 5 Wiring for a basic boiler (not requiring a pump overrun). The relay powers the boiler live input.

A boiler that requires a permanent live

For use with boiler that require a permanent live (this is a typical Combi boiler wiring) but please check manufactures instructions. This can be used for boilers with low voltage or 230vac room thermostat inputs.

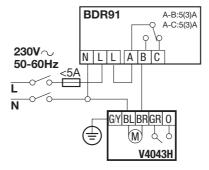
BDR91 A-B:5(3)A A-C:5(3)A S0-60Hz S0-60Hz N L L A B C SA N Boiler root terminals Remove lii If the boile

Boiler room thermostat terminals (see instructions) Remove link at boiler if fitted If the boiler had a inbuilt timer leave this on constant.

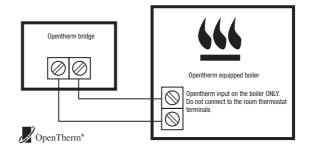
Figure 6 Boiler that requires a permanent live



Connecting a two-port zone valve



Opentherm bridge



- Figure 7 Connecting a two port zone valve G/Y: Green/Yellow Earth wire
- BL: Blue Motor Neutral
- BR: Brown Motor Live
- GR: Grey End switch (if used) Permanent Live
- O: Orange End switch (If used). In wired system this typically feeds the boiler. When a wireless boiler relay is fitted the end switch is not required

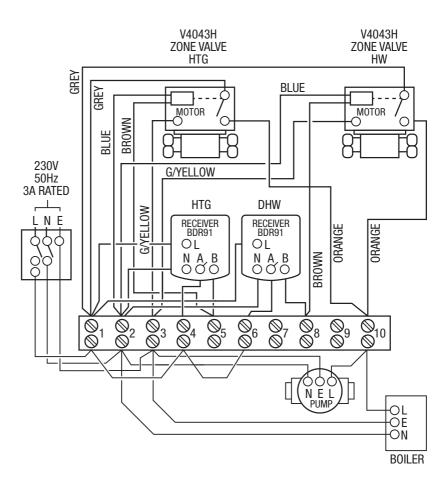


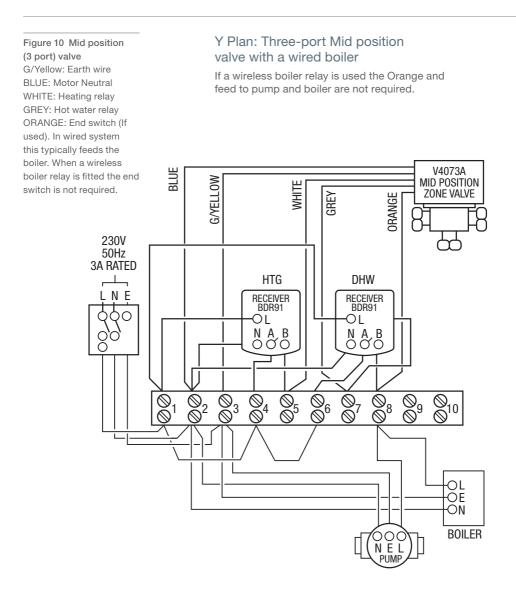
Wiring diagrams continued

Figure 9 Two port valves with a wired boiler. If a wireless boiler relay is used the Grey, Orange and feed to pump and boiler are not required.

Sundial or system valves

S Plan: 2 two-port valves with a wired boiler





Safety information

Approvals

Conforms to protection requirements of the following directives: EMC: 2004/108/EC LVD: 2006/95/EC R&TTE: 1999/05/EC

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

evotouch 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 **evotouch** should not be placed near heat or cool sources (e.g. cooker, lamp, radiator, doorways, windows).

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PLEASE RESPECT YOUR ENVIRONMENT!

Take care to dispose of this product and any packaging or literature in an appropriate way.



WEEE directive 2002/96/EC

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 Central Controller technical data

Electrical

Power module	Input voltage: 230VAC *10% Output voltage: 4VDC *0.2V, max 26W
Room unit power supply input	4VDC ±0.2V, max. 2.6W
Low voltage cable length (max)	10m, 1.0mm²; 5m, 0.5mm²
Battery type (rechargeable)	Type AA 1.2V NiMH 2000-2400mAh

RF Communication

RF operation band	ISM (868.0-870.0) MHz, RX Class 2
RF communication range	30m in a residential building environment

Environmental and Standards

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

Mechanical

Dimensions

139 x 101 x 21mm (WxHxD)

evohome

Honeywell

evohome is designed to convert a system with single zone pipework into a multi zone system, resulting in optimal control and comfort combined with maximum energy saving.

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

www.evohome.honeywell.com



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