

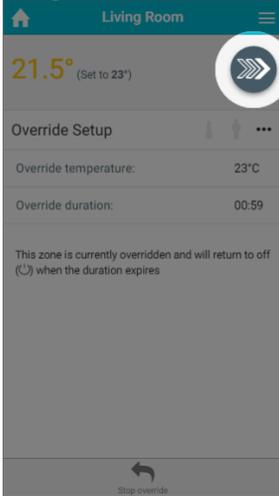
12. Testing the heating

There are up to 4 tests which should be carried out to test that the Genius system has been installed correctly.

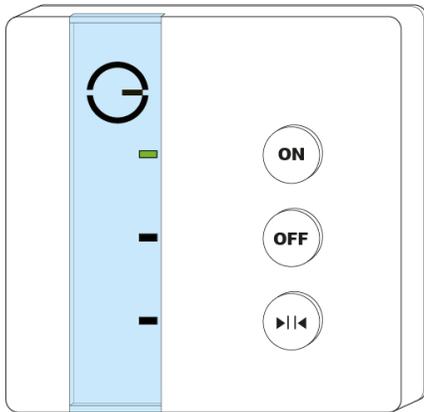
Valve Seating Test

This tests that the Genius Radiator Valves have been mounted correctly

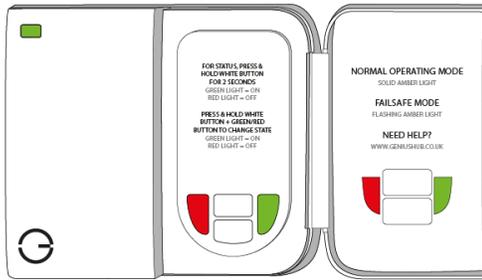
1. On the app, override one zone to 28°C for 1 hour. Ideally choose a room that has only 1 Radiator Valve.
 - a. Click on the zone to override.
 - b. Change the mode icon at the top-right to the Override symbol (3 arrows).



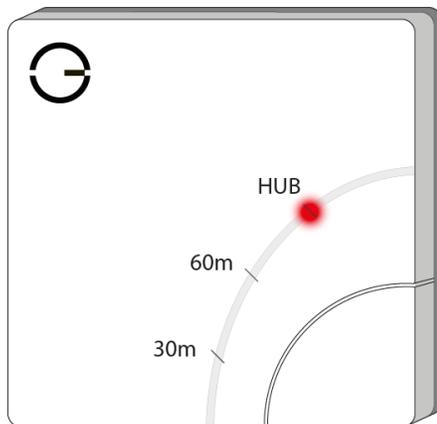
- c. Ensure the override temperature is 28°C and the override duration should be 1 hour.
2. Check that the Receiver Unit is active:
 - a. A Single Channel Receiver shows a **green** light.



- b. Hold down the Heating button on the the Dual Channel Receiver (the light at the top-left with turn **green** for 2 seconds).



- c.
- d. An Electric Switch shows a **red** light next to 'HUB'.



3. Check the boiler fires as normal and the correct zone valve has opened or pump has come on.
4. Check that the central heating pipe from the zone valve, pump or boiler gets hot.
5. **Wait 10 minutes!**
6. Now check the radiator in & out pipes and that each radiator is **cold** not **hot!** (Except for the overridden zone).

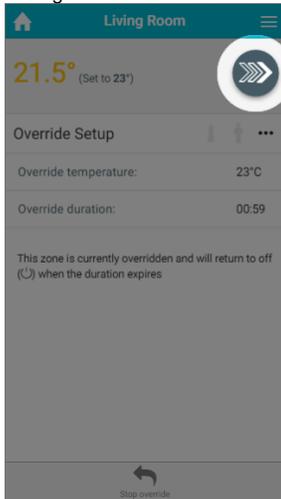
 This confirms all the valves are properly seated on the radiators, and they can turn the radiators off.

Underfloor & Electric Heating Test

This tests that the wired devices such as Receiver Units and Electric Switches have been wired correctly.

1. On the app, override one zone at a time to 28°C for 1 hour.
 - a. Click on the zone to override.

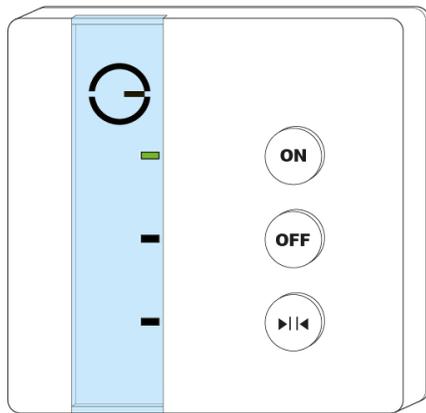
b. Change the mode icon at the top-right to the Override symbol (3 arrows).



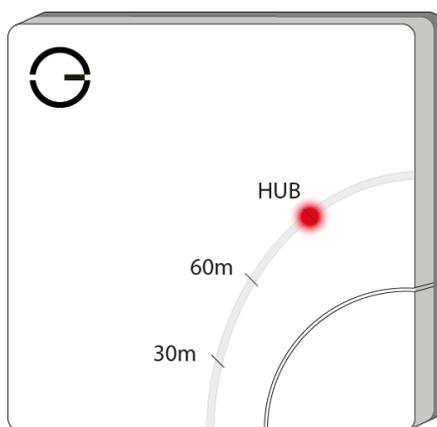
c. Ensure the override temperature is 28°C and the override duration should be 1 hour.

2. Check that the wired device is active:

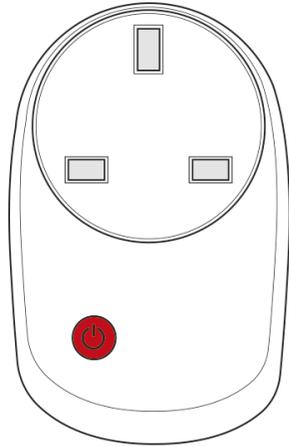
a. A Single Channel Receiver shows a **green** light.



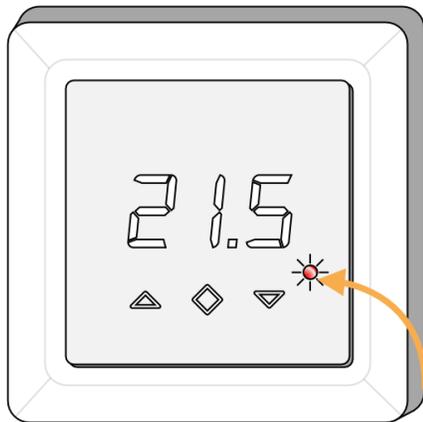
b. An Electric Switch shows a **red** light next to 'HUB'.



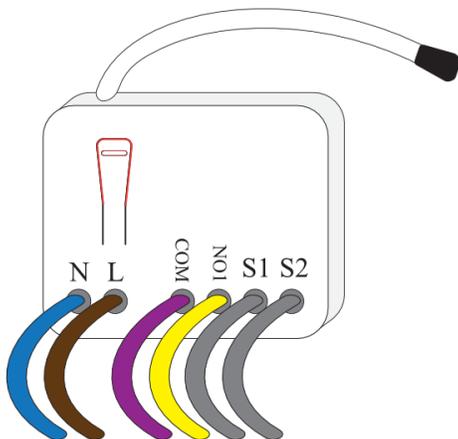
c. A Smart Plug shows a **red** light above the socket.



d. A Powered Room Thermostat shows a **red** light to the bottom right of the display.



e. An Electric Relay shows a **red** light behind the button on the device. You will need to remove the blanking front plate to see this.

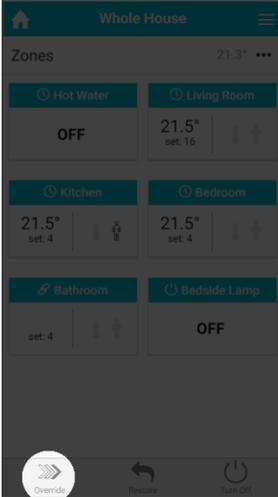


3. For wet underfloor heating, check the boiler fires as normal and the correct zone valve has opened or pump has come on.
 - a. Check that the central heating pipe from the zone valve, pump or boiler gets hot.
 - b. **Wait 30 minutes!**
 - c. Now check the floor nearest the in & out pipes and see if it is getting warm. The other rooms, not overridden yet should remain **cold**.
4. For electric underfloor heating:
 - a. **Wait 15 minutes!**
 - b. Now check the floor to see if it is getting warm.
5. For electric space heating check:
 - a. **Wait 5 minutes!**
 - b. Now check that the heater has begun to warm up. The other rooms, not overridden yet should remain **cold**.

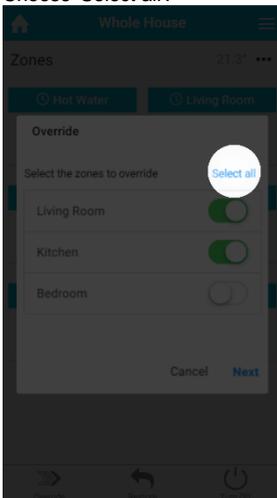
The Communication Test

This tests that the Genius Radiator Valves can communicate with the Hub

1. Override all of the heating zones to 28°C.
 - a. Click on the 'My House' icon at the top left.
 - b. Tap 'Override' at the bottom of the screen.



- c. Choose 'Select all'.



- d. Ensure the override temperature is 28°C and the override duration should be 1 hour.
2. Check all the rooms receive the new set point temperature on the app. Each zone will have 'Set: 28'.
 3. **You must wait 10 minutes!**
 4. All of the valves will wake up on their own and get the message to go to 28°C.
 5. Make sure the radiator valves have received the message by pressing the button to light up the screen. Each valve should read the Override temperature, i.e. 28°C.



- This confirms all of the valves have good communication with the Genius Hub.
- The radiators **DO NOT** need to warm up. The valves can take up to 1 hour to react when newly installed as they learn how far the pin needs to be opened.

The Hot Water Test

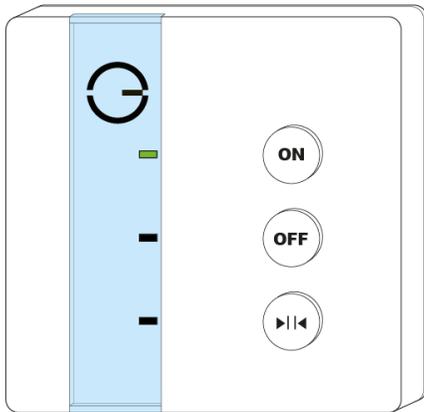
This tests that the Hot Water has been wired correctly



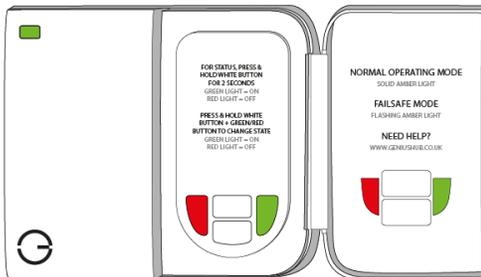
Only complete if hot water control is installed

1. Override the Hot Water on the app for 1 hour.

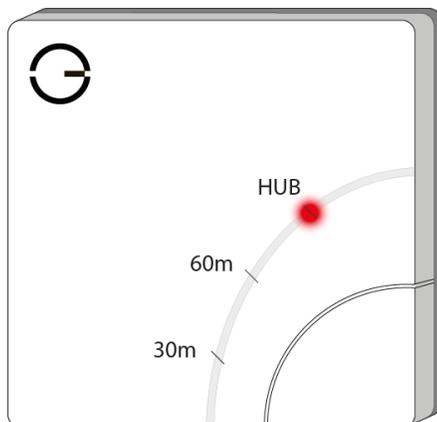
- a. Click on the hot water zone on the app.
 - b. Change the mode icon at the top-right to the Override symbol (3 arrows).
 - i. If the hot water is an On/Off zone, select the override setting as **ON**.
 - ii. If the hot water is a temperature zone, select a much temperature higher than the current measured temperature.
 - c. Ensure the duration is 1 hour.
2. Check the relay on dual/single channel receiver is active.
 - a. A Single Channel Receiver shows a **green** light.



- b. Hold down the Hot Water button on the the Dual Channel Receiver (the light at the top-left with turn **green** for 2 seconds).



- c. An Electric Switch shows a **red** light next to 'HUB'.



3. Check the boiler fires as normal and the correct zone valve has opened or pump is running.



- This confirms the Genius Hub has control over the hot water.

- If the boiler does not fire, the Cylinder Stat may be stopping the boiler as the Hot Water tank is already up to temperature. To test this increase the cylinder stat temperature temporarily, to check the zone valve opens and boiler fires. The cylinder stat must be returned to what is appropriate for the property after the test has been completed.