

The difference between remote, zoned and smart control

A typical setup for a modern central heating system (before the Genius Starter Kit is added), is to have the boiler run on a schedule using a 7-day programmer, a manual thermostat in a hallway, and Thermostatic Radiator Valves (TRVs) on each radiator. In this configuration, the boiler will switch on and circulate water according to the 7-day programmer until the manual hall thermostat registers a temperature above the temperature which it set to. Each TRV will allow its radiator to heat up until the individual room is warm enough, and then the TRV will close. The boiler will continue to run until either the timer finishes or the hallway manual thermostat senses the temperature is satisfied in the hallway, not in the rooms.

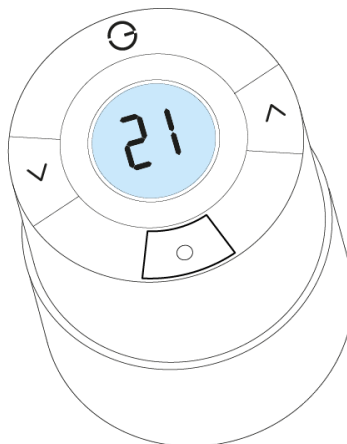
The Genius Starter Kit - Remote control



The [Genius Starter Kit](#) is provided with a [Genius Room Thermostat](#), sometimes known as the 'house thermostat'. It also comes with a [Single Channel Receiver](#) and a [Genius Hub](#). A heating schedule can be created on the app, and the Room Thermostat will be used to determine if the property is cool enough to bring on the heating.

The Single Channel Receiver will ensure that the boiler runs only when you set a target temperature on the app that is warmer than the temperature that is being measured by the Genius Room Thermostat. This means that hot water only circulates through the pipes in the property and heats the radiators when you set the property to be warm on the app. If you have manual Thermostatic Radiator Valves these will control the room temperature as they would do normally.

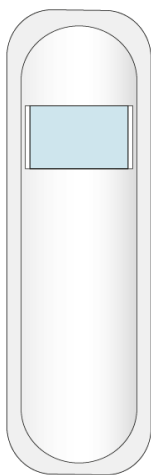
Genius Radiator Valves - Zoned control



With a Genius system, on top of the 'Starter Kit' mentioned above, a number of heating 'zones' can be created, where one or more [Genius Radiator Valves](#) can be assigned. Now you can set varying temperatures throughout the day for each room that you put a Genius Radiator Valve into.

The Genius Room Thermostat can now be used to manually override all the rooms in one go, to override a group of rooms, or it can be assigned to one room so it only controls that room individually.

Genius Room Sensors - Smart, zoned control



Adding a [Genius Room Sensor](#) to a zone allows the Genius Hub to react to when you use a room and it also remembers when rooms are used so it can turn them on before you use them. This saves more energy as it turns rooms off when it sees that they are not being used. See chapters about [Sense Mode](#) and [Footprint Mode](#).

Related Information:

- [Positioning Guidelines \(Smart Plugs and Range Extenders\)](#)
- [How to - Remove and refit the Genius Radiator Valve](#)
- [Is my Genius Radiator Valve working correctly?](#)
- [Genius Radiator Valve responding slowly to change in temperature on the app](#)
- [Transferring Devices over to a new Genius Hub](#)