



WundaSmart User Guide

Now you've installed your WundaSmart controls, you have the ability to control your heating and comfort more than ever before! This guide will help you find the best way to use WundaSmart for you.



What's the most efficient way to use my heating.

The first thing to remember is, every situation is different and depends on a number of variables. For instance; windows, insulation, heat source, occupants.

The best thing about WundaSmart is that it's packed with tools to help you efficiently use your heating, regardless of your situation.

In traditional Central Heating systems, radiators use water heated to 70-90 degrees Celsius. So if you're heating every radiator every time you want the heating on in one room, that's a lot of waster hot water and money!

As a general rule for efficiency, we advise people to run their boiler at as low a temperature as possible, as little as possible. The rest of this guide will show you how WundaSmart can help you achieve that on a room by room basis!

Keep your doors closed

Heat likes to travel to colder spaces. Now you are heating one room at a time - keeping your doors closed will help you keep the heat in the room you want it. If you want to heat your whole home at the same time, it's far more efficient to heat all the rooms on at once (using our Quick Switch), with doors closed and radiators working in each room. Rather than having all the doors open and only one radiator heating, with the heat immediately being lost to colder rooms.

Pre-Defined Temperatures

For quick and easy changes WundaSmart has 3 predefined temperatures which are used throughout the whole system.

Blue - Reduced

Green - Eco

Red - Comfort

You can quickly change a rooms temperature using these presets from the main 'rooms' menu. These presets are also used to set schedules throughout the day.

Blue - Reduced - 17

Green - Eco - 19

Red - Comfort - 21

WundaSmart Devices Energy Saving Nature

Sleeping devices

Our Devices are made to save energy, our Smart Thermostats and Smart Radiator Heads rest in standby mode during a 5 minute window. They then wake up if they haven't sensed any major change to check the temperature, if there is a change it will communicate it and it will update in your App. This saves a great deal of battery life and keeps your WundaSmart devices working for longer.

WundaSmart modulates, and what that means...

WundaSmart's modulating technology means you are in safe hands when it comes to accurately monitoring temperature and keeping your bills as low as possible.

When you set a heating period, your smart thermostat and smart radiator heads monitor the current room temperature and only injects heat when necessary, to ensure that your room stays near the set temperature and you use as little energy as possible to achieve it.

Adaptive Start

This function saves you guessing your room heat up time and turning on the heating early. WundaSmart tracks your room heat up time over a number of days and takes it into account for it's next heating period.

If you want to be warm at 7am for an hour when you wake up, adaptive start will ensure your room is up to temperature for 7am! Then WundaSmart's Modulating nature will ensure you aren't just pumping heat into the room for an hour, but maintaining the desired temperature.

Common approaches to using WundaSmart:

1. A Planned Schedule

Start with your bedrooms.

Maybe you want your bedrooms to be warm for when you wake up and get ready in the morning and then before you go to bed at night? So start off scheduling 1 hour in the morning and maybe 1 hour in the evening. You can use more or less time if you find your room needs it.

If you don't regularly use them again throughout the day, don't schedule any heat.

If you have guest rooms that aren't used then you don't need to schedule heat for them. Be aware that these rooms can become quite cold in the winter and you should keep the doors close to prevent them drawing warmth from areas you do use.

- Bathrooms

You should treat your bathrooms the same as you treat your bedrooms, only heat them when you know you will want them to be warm, otherwise turn them off!

- Your Reception Rooms & Kitchen

Have a think about how and when you use these rooms, breakfast, lunch, dinner, TV at night - and schedule accordingly.

2. No schedule

For those who only want heat when they need it, a no schedule approach might be best. Only calling for heat via the app or manually when you want it.

3. Set a Schedule and set up Geo-Fencing

For users who's routine is unpredictable, setting an ideal schedule for the day and then setting up automated Geo-Fencing in the app (see page 14) to pause and resume the schedule is very useful.

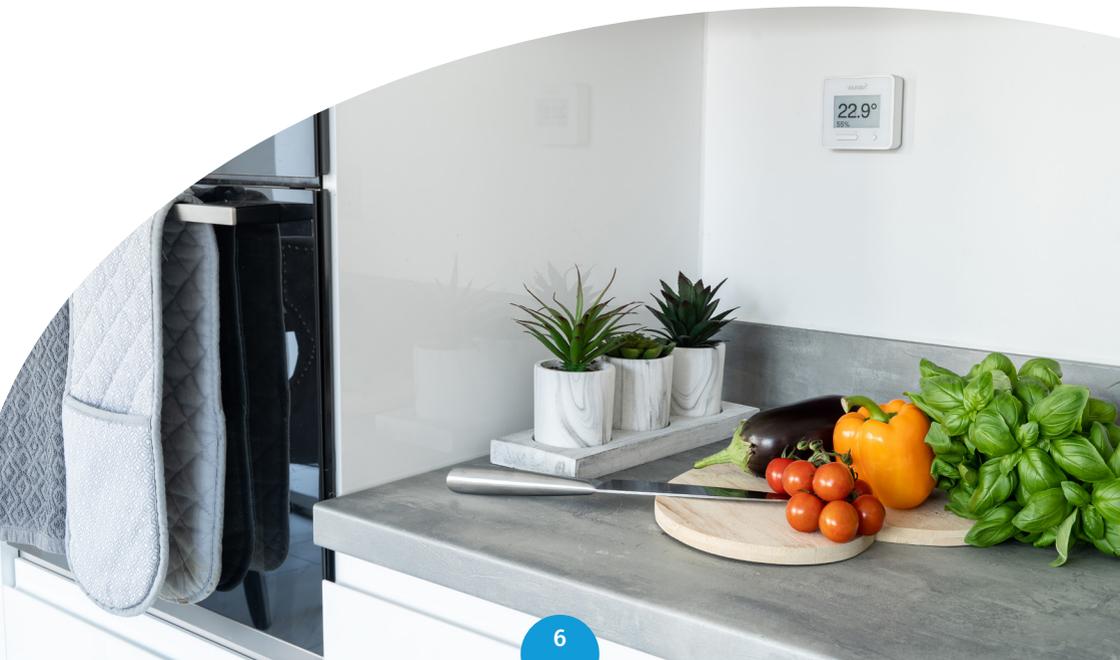
4. Manual Use and Scheduling

Now you have your schedule set up, when you just need a little more heat, you can simply open your app and change the temperature for the amount of time you want.

Depending on your choice of devices you can change the temperature from your Smart Thermostat, Smart Radiator Head, or your HubSwitch.

Contents

Changing Temperature In the App	7
Changing Temperature Manually	10
Boost Buttons	12
Scheduling	14
Geo Fencing	17
Settings and Functions	20
Share your system with others	29



Changing Temperature in the App

Rooms Screen

The screenshot shows the 'Rooms Screen' interface. At the top, there are three buttons: 'Add Room', 'Reorder', and 'Compact'. Below these is a 'Quick Switch' button. Underneath is a 'Hot Water' section with an 'OFF' toggle and a calendar icon. The main room control section is for a 'Hall', showing a temperature of 23.0°C and humidity of 54%. It includes a room icon (bookshelf), a temperature display, a humidity display, an 'OFF' toggle, and a 'Quick Change' button. At the bottom, there is a row of three chairs.

You will find the quick switch in your rooms list, it's great for when you want to quickly manually adjust the temperature for the whole house.

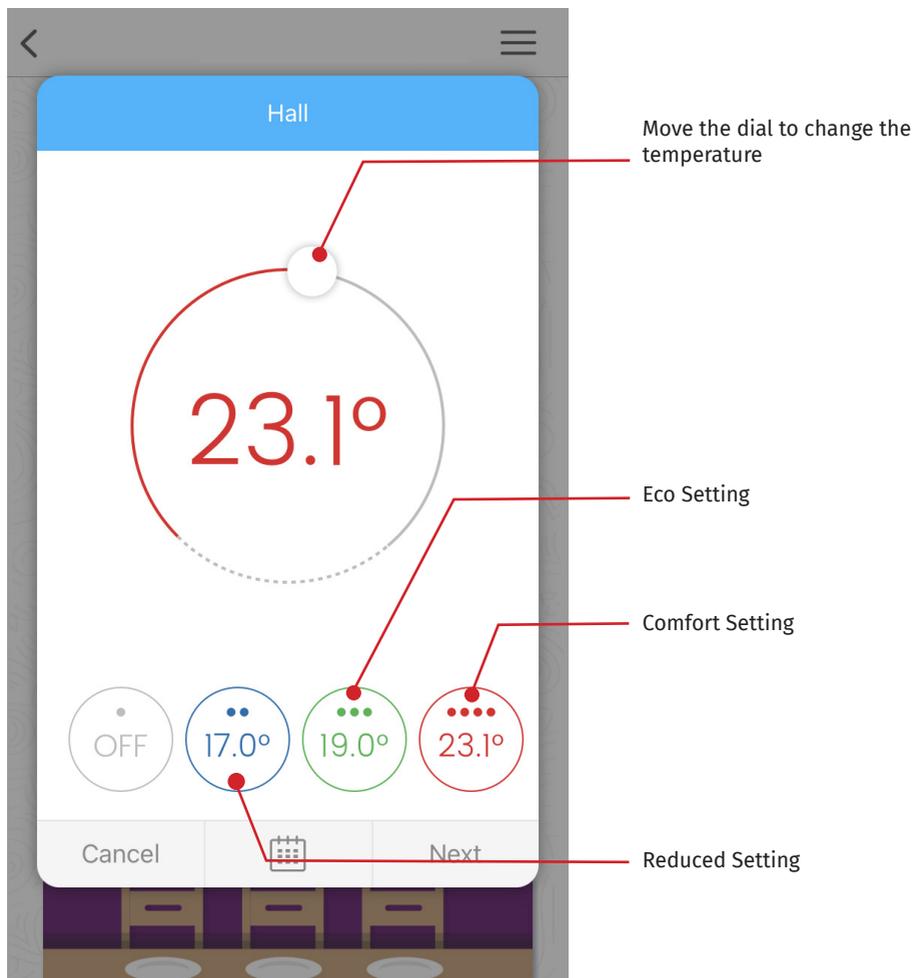
This is where the current room temperature is shown

This is where the humidity is shown

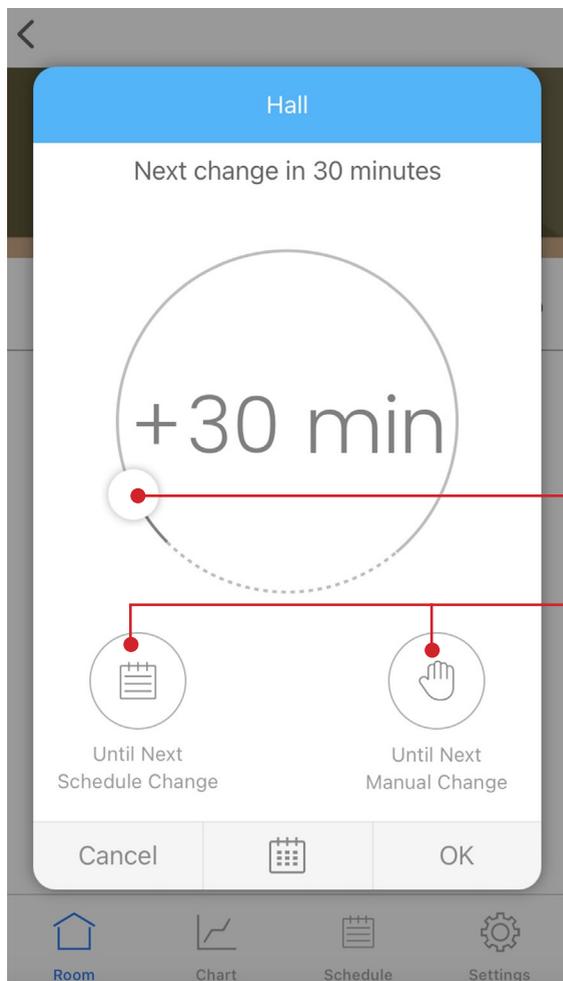
Press here to enter the room section and choose a specific temperature for a specific amount of time, see charts, schedules and settings.

Quick Change, Press here to change the temperature.

Choose Your Temperature



Choose Your Time



Move the dial to change the time

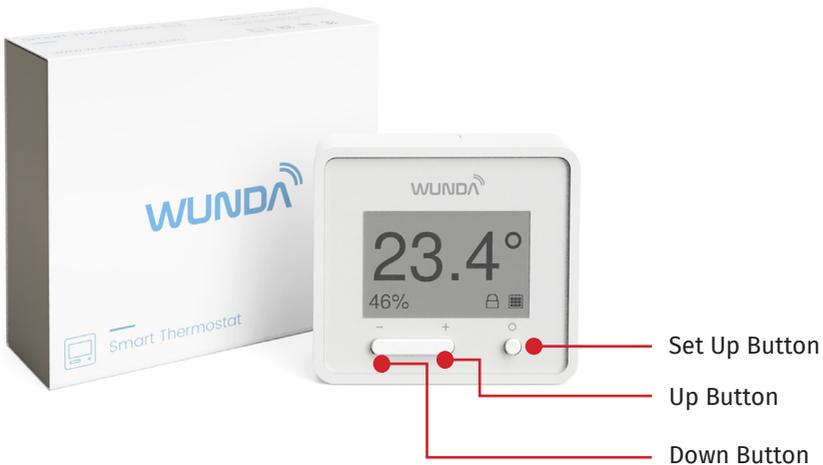
Press here to choose when the next change will occur

Changing Temperature Manually

Smart Thermostat

Simply adjust the temperature by using the + and – buttons. Any change in temperature set here will be active for 2 hours unless overridden by a new action from your app or a different device.

Your Smart Thermostat displays the current temperature in the room. To see the set temperature press the set up button.



Smart Radiator Head

If your Smart Radiator Head has buttons, you can use them to move through your preset temperatures in the app. The different colours relate to each temperature in the app.

Blinking Blue – Closed (Off)

Blue – Reduced

Green – Eco

Red – Comfort

Blinking Red – Full Boost (fully open)

Changes made at the radiator head are valid for 2 hours unless overridden by any newer action from a different source.



Blue LED:
Reduced
Temperature



Green LED:
Eco
Temperature



RED LED:
Comfort
Temperature



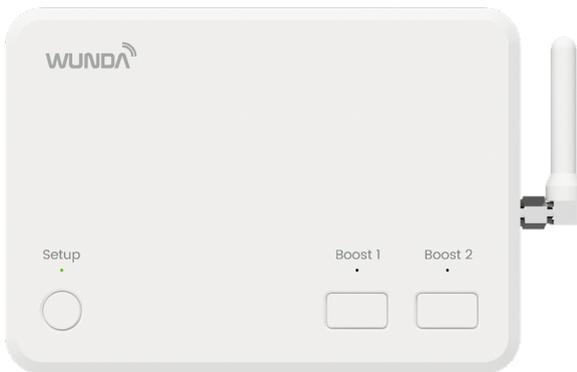
Blinking Blue LED:
Radiator Head is Closed
(Anti-freeze Setting)



Blinking Red LED:
Radiator Head is fully
Open (Max 35°C)

Boost Buttons

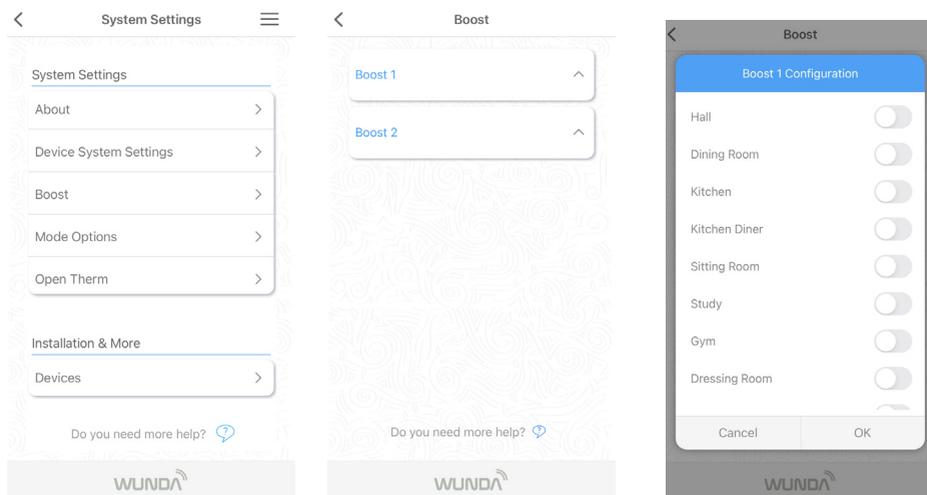
For quick and easy use if you don't have your phone or for members of your household who prefer not to use apps, there are two buttons on your Smart HubSwitch where you can boost the heating from.



Set Up Boost Buttons

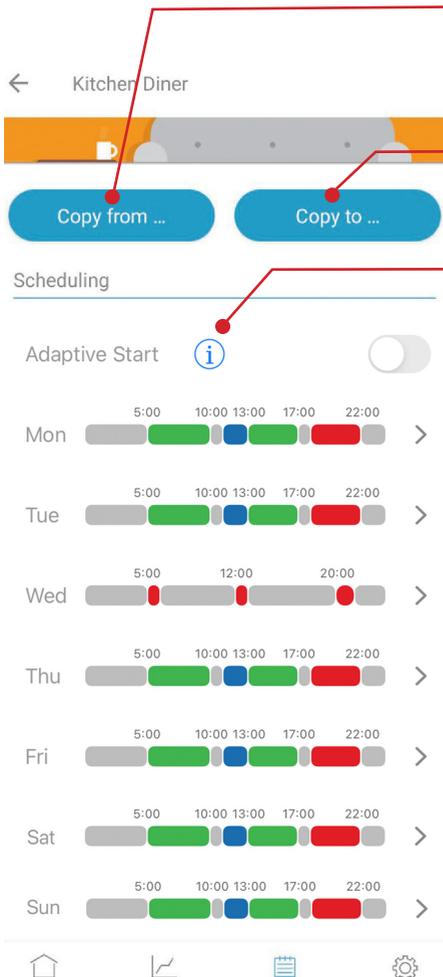
First you need to set up the boost buttons. Go to System Settings in your system menu.

Choose, 'Boost' - here you can add rooms or hot water to Boost 1 or Boost 2 and choose how long you want to boost the heating or hot water for.



The boost button will then boost any rooms you have assigned to the button to comfort mode for 2 hours, unless you have chosen a different amount of time or overridden by any later command.

Scheduling



Here you can copy a schedule **from** another room

Here you can copy the below schedule **to** another room

Adaptive Start, starts your heating in time to reach the desired temperature at the beginning of the scheduled period. The thermostat will learn the room's warm up time, and adjusts the heat up time depending on the environmental conditions in the room.

We deliberately chose to develop a system that gives you the power over your schedule and is easy to adapt to any kind of lifestyle, whether you have a strict routine or work from home and go with the flow.

Remember – that during a heating period, WundaSmart is only trying to achieve your desired temperature and modulates on and off to use as little energy as possible. If you schedule a 4 hour period at 20 degrees, WundaSmart will only heat when necessary to achieve that, allowing you to make use of natural heat via solar gain or room occupancy.

Copy and Paste!

Top Tip - If your schedule is similar for all the rooms you regularly use, just simply set up one room's 7-day schedule and then copy to the others. And then setup a schedule for a room you rarely use, (maybe it's mostly 'off') then copy that to the other rooms you rarely use as well. Then adjust as you go.

What Temperature should I use?

We have set some default temperatures for you to get started. We recommend you use these to begin with and then adjust them up or down depending on your personal preference.

17 ° (Reduced)

19 ° (Eco)

21 ° (Comfort)

Chart Screen

< Master Bathroom

< Thursday, 19 August 2021 >

Temperature chart

Hours	Temperature (°C)
00	23.5
04	23.0
08	24.5
12	24.0
24	24.0

Hours

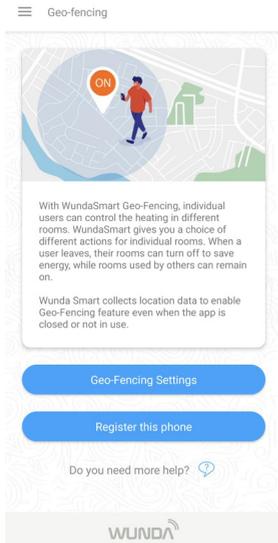
Humidity chart

Hours	Humidity (%)
00	57.5
04	57.0
08	56.5
12	57.5

Humidity %

Room Chart Schedule Settings

Geo-Fencing



WundaSmart's Geo-Fencing is perfect for people who have more than one user in their property and want to save money through fool-proof automation.

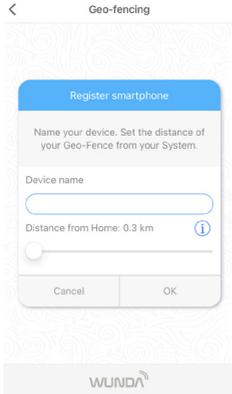
This function allows the owner / admin of the property to set an on/off action for each room. Each user can then set a radius (Geo-fence) of 300m to 100Km from their system, then a number of rooms to their device. When they leave the Geo-Fence, the rooms pinned to their device will then turn off, or go to a setback or economy mode depending on the admin's choice.

When the user returns, the room will return back to schedule, go to Eco or Comfort mode, depending on the admin's choice.

If there are shared rooms by multiple Users, then the actions will only trigger when the last user leaves their set Geo-Fence.

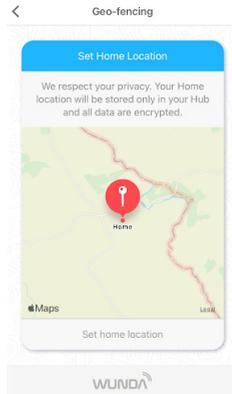
This is an incredibly useful, energy saving and convenient tool for:

- People working from home who want the heating on when they're in and the schedule paused when they're out.
- Families with multiple users, where some users are out of the house more than others, they're bedrooms can be off while the schedule continues through the rest of the property, for those who are still in.



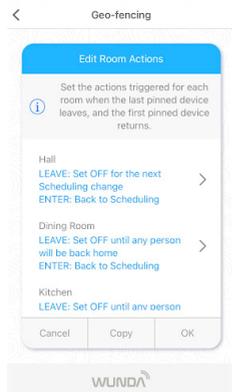
Step 1 Register your phone

Name your device
Set your Geo-Fence distance



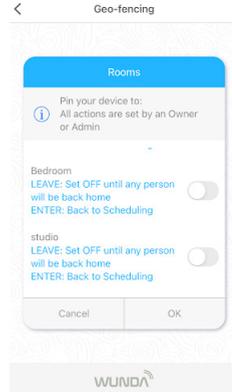
Step 2 Set your Home Location

Ensure the pin is pinned to your
location



Step 3 Set your room actions (this can only be done by an Owner or Admin)

Choose an action for each room when
you leave and when you return

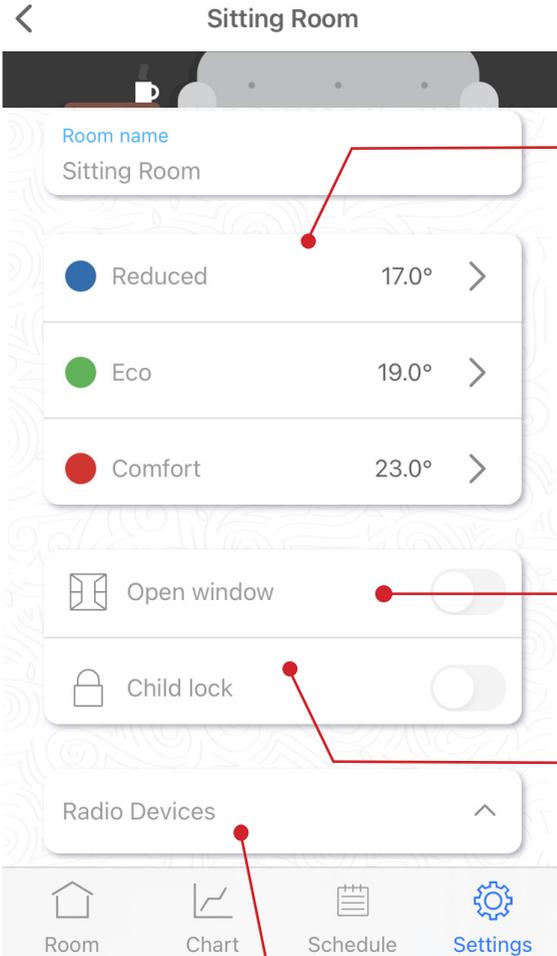


Step 4 Pin your device to rooms

Pin the rooms you want to be triggered
by your device

Step 5 Tell other users to register and assign their device to the rooms that they use

Room Settings



Here you can personalise your pre-set temperatures for each individual room.

This function helps you save more energy, it automatically turns your heating off when your WundaSmart devices sense a drop in temperature in your room and will cancel the heating in the room for a certain amount of time. The default setting is to cancel heat for 20 minutes when your devices sense a drop of 0.6 degrees, if you wish - you can change these values in your settings.

Here you can set a child lock, which will make all the smart devices that are paired to the room or zone temper proof and block manual control until you turn off the child lock.

Here you can see a list of the devices you have paired to the room and adjust individual device settings.

Room Settings

← Sitting Room



Radio Devices

Advanced parameters

WARNING! Changing these settings may affect how your system performs.



HubSwitch channel configuration



Connection box configuration
Utility room manifold: |1| |2|
Relay



Remove room

Add Device

Do you need more help?



Room



Chart



Schedule

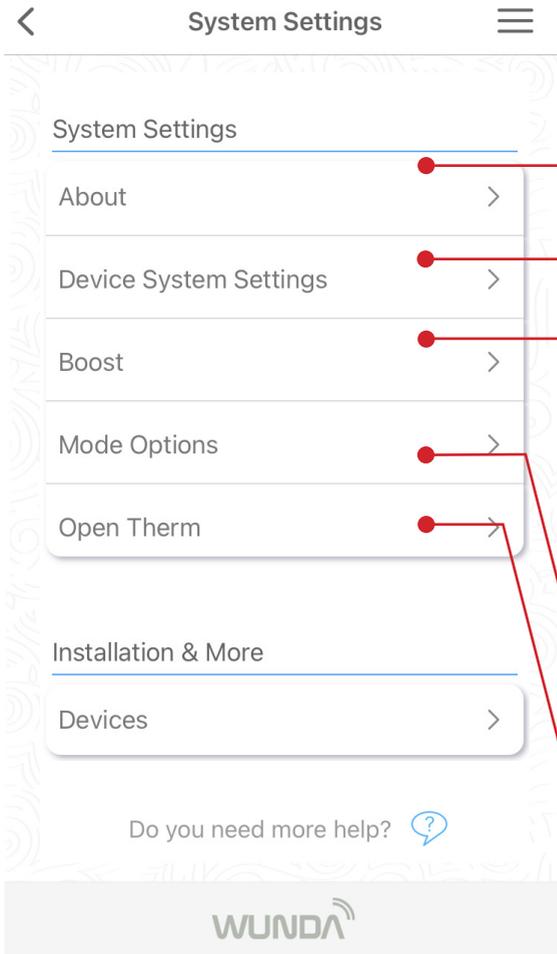


Settings

Advanced Parameters

These settings should only be necessary to access when installing your system. This section is where you pair your room to the correct heating channel in your HubSwitch, or if you have underfloor heating – it is where you can configure your room to your WundaSmart Connection Box channels.

System Settings



This page shows you general information you may need if you ever need to do some troubleshooting. Here you can view your Device Serial Number, Software and Hardware versions. You can change your Date and Time Zones and view your WiFi status.

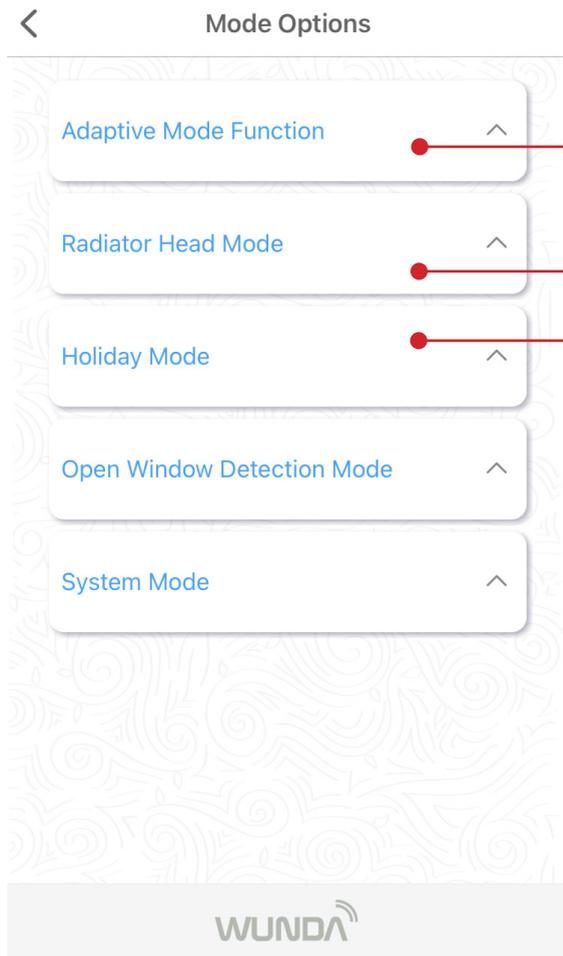
Here you will find information about your device settings. Such as your HubSwitch, UFH Connection Box and Radiator Heads.

This is where you can configure your boost buttons. Choose which rooms / hot water you want to assign to which button and choose how long the boost will last for. You can also see if the boost buttons current status to see if it has been activated or not and activate it if you wish.

Here you can personalise and configure all of the 'modes' the app offers.

Opentherm is explained later on page 24

Settings - Mode Options

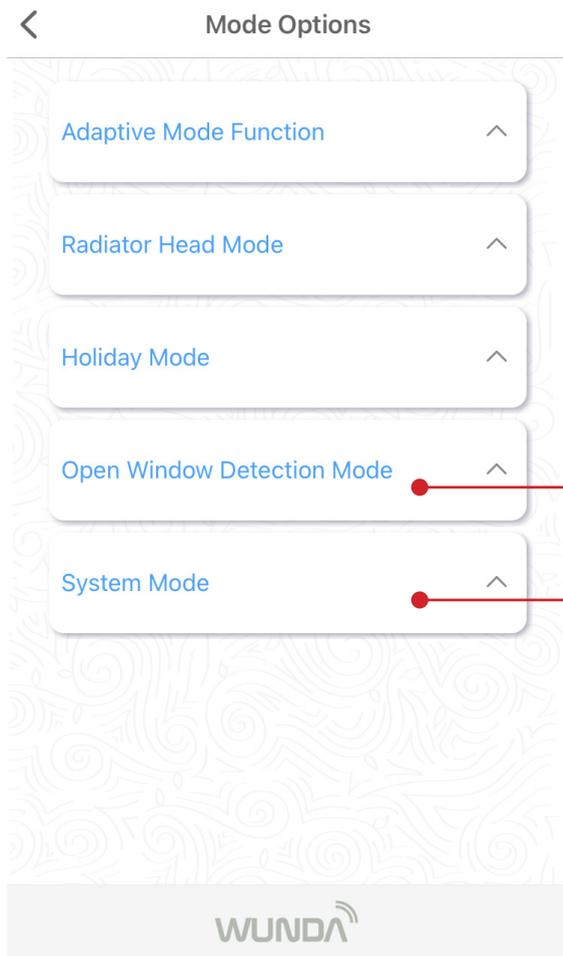


Choose which rooms have Adaptive mode enabled and the maximum amount of time you will allow the system to start early by.

This is mainly for troubleshooting if you want to see if you have a faulty TRV valve. You can choose between: 'operating mode (all)' – which is the usual working mode. 'Test Open (all)' – which will open all of your WundaSmart Radiator Heads. 'Test Close (All)' – which will close all of your WundaSmart Radiator Heads.

Here you can turn on holiday mode and schedule a period of time for WundaSmart to pause your heating and hot water schedules until the end date. It will revert to antifreeze settings. If for any reason you want to turn on your heating or hot water during a holiday period, you can boost either for a period of time using the app.

Settings - Mode Options



This function helps you save more energy, it automatically turns your heating off when your WundaSmart devices sense a drop in temperature in your room and will cancel the heating in the room for a certain amount of time. The default setting is to cancel heat for 20 minutes when your devices sense a drop of 0.6 degrees, if you wish - you can change these values in your settings.

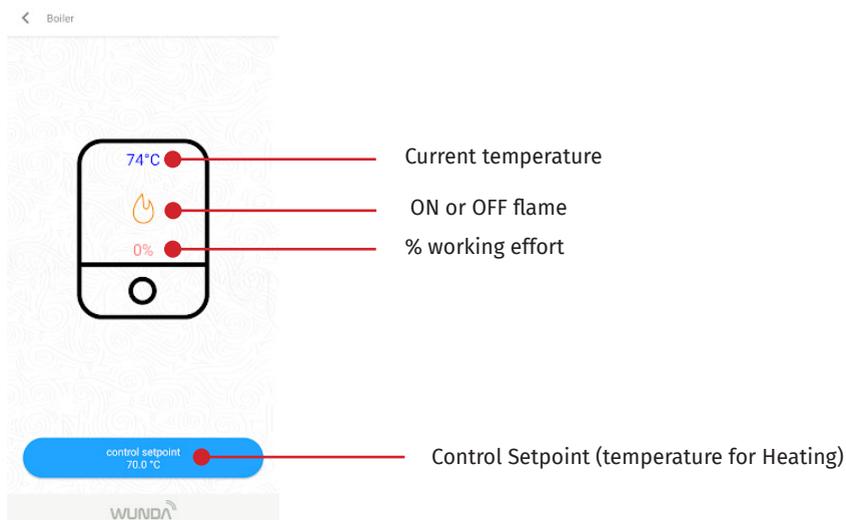
Here you can turn off your heating entirely and set your antifreeze temperature, which is defaulted to 7 degrees.

Opentherm

When WundaSmart is connected to your boiler using Opentherm, you can set the temperature of the water you use for your Hot Water and Heating as well as seeing the current operating temperature.

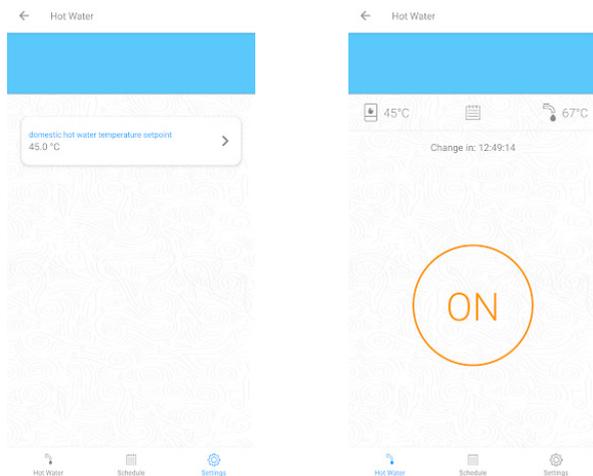
As well as a higher level of control within your boiler, when you connect using Opentherm the WundaSmart app will also alert you if there are any errors or problems with your boiler.

Heating and Opentherm



Here you can set the temperature for your heating system (control setpoint). This screen shows that the setpoint is 70 degrees C. the boiler has been heating (indicated by the flame icon) it shows the current temperature is actually at 74 degrees C. So the boiler now is using 0% energy and stopped working.

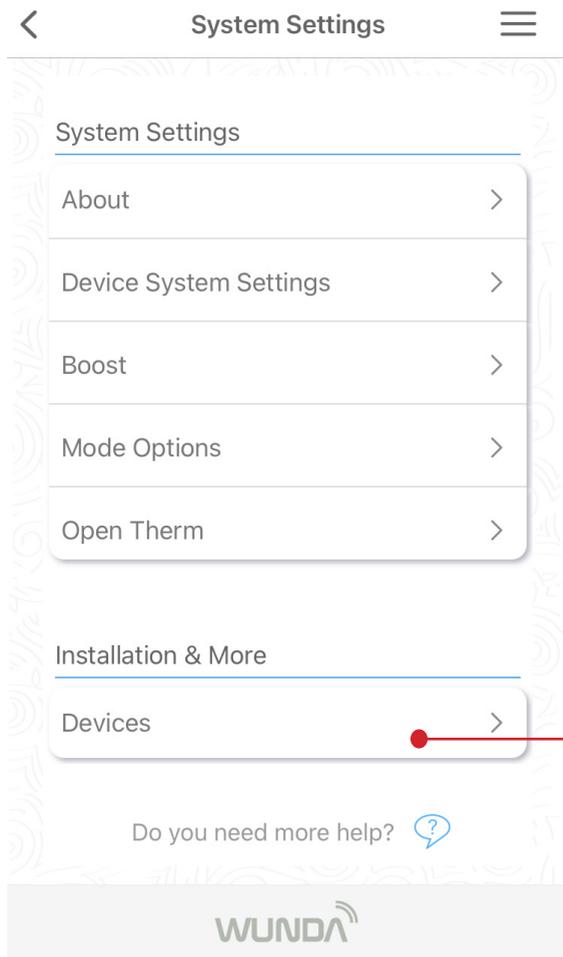
Hot Water and Opentherm



Here you can set the temperature for your domestic hot water. You can see here it is set to 45 degrees C.

When you have connected your WundaSmart system via Opentherm, you can see the setpoint for your hot water (top left). You can also see the actual current temperature that is being used (top right). In this screen you will notice that the current temperature is higher than the setpoint. This could be due to either a time delay, where the previous setpoint was higher and now it will take some time for the water to cool down to 45 degrees C. Or, it could be that you have used all the water in your hot water tank and now your heating system is using some water from your central heating water, which is at a higher temperature.

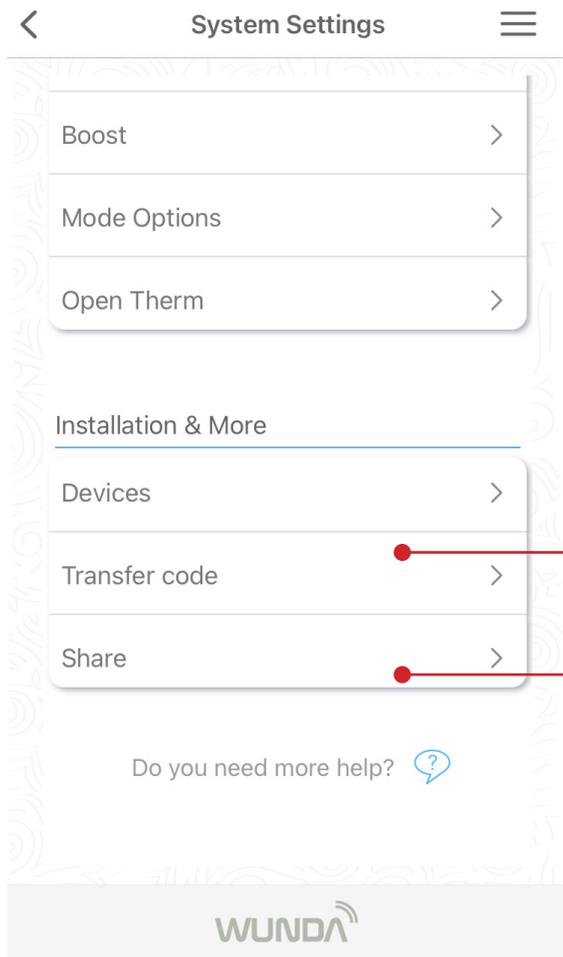
Settings - Installation & More



Here you are shown a list of devices and their locations. You can also identify a device if it has been moved from the room it was originally paired with.

You can also add a new device Smart Switch or Connection Box.

Settings - Transfer Code & Share



This function is for transferring ownership of a system to a different use. This is useful when an installer has set up everything for the user and needs to transfer ownership. Note: Once the system is transferred, you will no longer have access to the system.

If you are the system Owner or are an Admin, here you can share the system with another user and assign their privileges.

Settings - Transfer Code & Share

Share your System with others

Only an Admin or the Owner can share with other users.

Make sure the person you want to share with has downloaded the App and setup an account. Go to 'System Settings' then click on 'Share' under 'Installation & More'.

From here you can share your system with their registered email address and choose their privilege setting.