



wondrwall®

INTELLIGENT LIVING

Home Setup Guide

Wondrwall Home Automation

Welcome to a Wondrwall enabled home. Using innovative hardware and cloud-based learning technology, Wondrwall achieves groundbreaking advances in home energy saving, home security and lifestyle personalisation.

Once installed, Wondrwall begins to build a detailed picture of exactly how you use your home. With a complex understanding of your living patterns, Wondrwall plots the optimal running of your home whilst making continual improvements over time.

Using the power of Amazon's Alexa platform, Wondrwall also gives you voice activated access to the internet to allow you to check the weather, travel information, retrieve the day's events from your Google calendar, or order a taxi or products from Amazon.

Wondrwall can also connect to your media, playing music through speakers built into each light switch. For higher quality sound, Wondrwall integrates with Sonos speakers.

Components

- Light Switch
- Thermostat
- Key Fob
- Siren



Moving in to your New Home

When you first move in, your Wondrwall home automation system is installed and ready but has not yet been connected to the network. The full power of the Wondrwall system is available when you have set up. At this stage, your home works in the same way as a standard home. You can:

- Turn lights on and off using the touch controls on the light switches
- Control the heating by increasing/decreasing the temperature of your home

Until you connect Wondrwall, your security system will not work. You need to connect and setup the security system but once this is done, the security system will then continue to operate even if your network is down.

As soon as you have a WiFi router and internet connectivity, you can connect Wondrwall as described below and start to make your home intelligent.

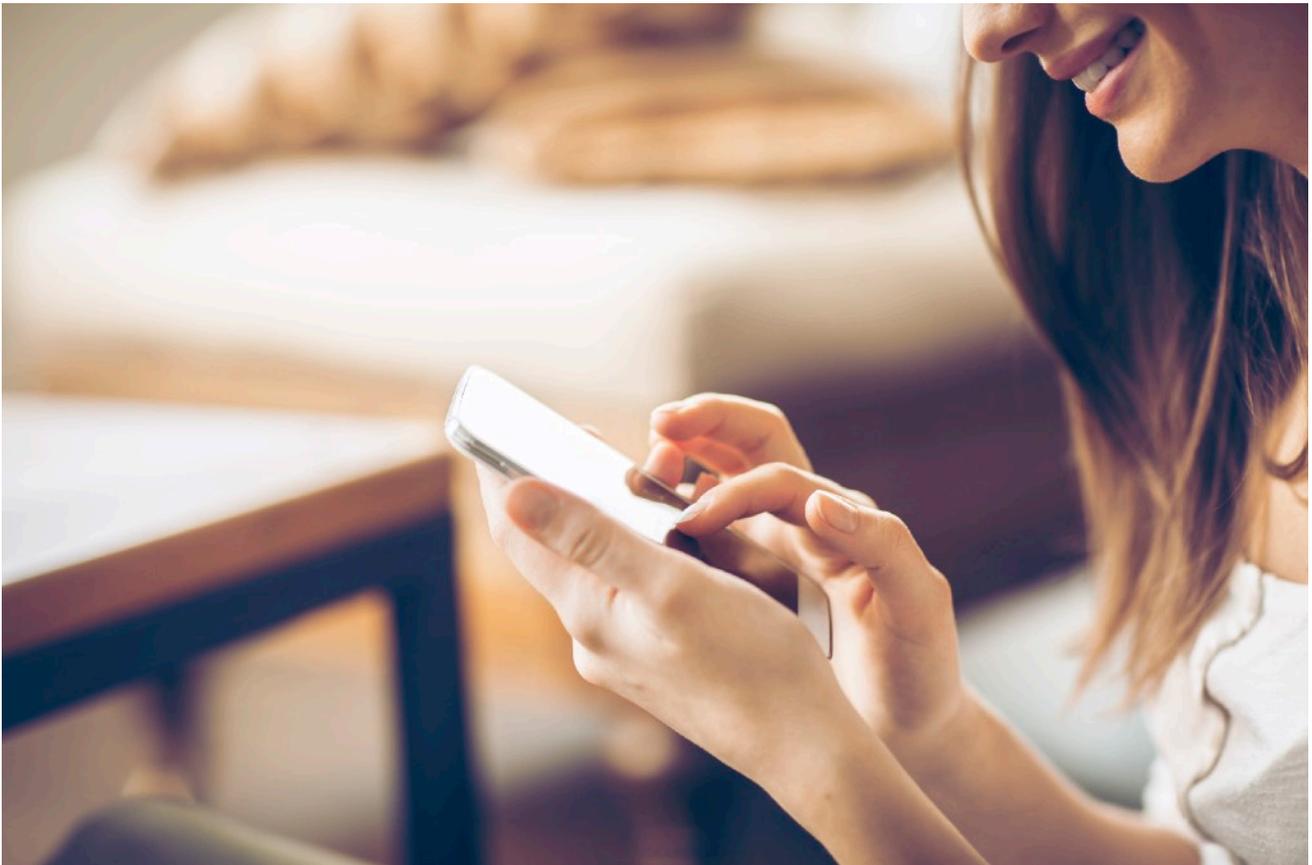


Setting up your Wondrwall Intelligent Home

To set up the Wondrwall network, you must first pair the primary/master light switch to your wireless router and network, using the Wondrwall app, which is available on the App Store and on the Google Play Store. Follow the instructions in the app to login and connect the system. You will need a UK Amazon account to login. This is the same Amazon account as you use for shopping, Kindle, Fire TV and Alexa. If you do not have one, you can create one as part of the setup process.

Comprehensive instructions to follow are included in the app and should typically be sufficient to install Wondrwall. We have also included written instructions in this document. In addition to these written instructions, we have included a narrated screen capture video of the process for each component so you can see exactly what to do.

If you still have trouble, our technical support team is available to help. Contact details are at the end of this guide.



Pairing the Primary Light Switch

All Wondrwall light switches that are powered but not set up, will show two LEDs on the front, one is a solid LED and one is a flashing LED. This means that the device is at factory settings and ready to be setup. The primary light switch will be the main hub of the Wondrwall network and is the first device to install. Select the light switch in the centre of your home, nearest to your wireless router and remove the front cover to expose the functional pairing button. The cover can be removed by pulling either the left or right side of the light switch to unclip it from the base. Before you start the pairing process, note which buttons actually turn lights on in your home. The options are:

- Not connected (no lights turn on)
- Single left (only left hand button turns on lights)
- Single right (only right hand button turns on lights)
- Double (outside left and right buttons turn on lights but not middle)
- All connected (all buttons turn on lights)



Video guide: [**How to pair the primary light switch**](#)

1. Ensure the phone/tablet is connected to your home WiFi network. Turn on location settings on the phone.
2. Open the Wondrwall app and press **Login with Amazon**. Follow the on-screen instructions to login to your Amazon account.
3. On the Wondrwall welcome screen, press **Configure own house**. If there is an existing house that has been setup before but not completed, delete this before proceeding.
4. Press **Start** on the initialisation screen to open the install wizard which gives step-by-step instructions.
5. If not already done, remove the front cover of the light switch to locate the functional button, just below the left screw on the front of the switch. Press **Next** on the app.
6. Use a pin or wire to press and hold the button for at least 10 seconds until all LEDs flash. Release the functional button and press **Next** on the app.
7. If using iOS, you will be required to select the Wondrwall device from the available WiFi networks. Once connected, return to the Wondrwall app. Android will just require selecting the network and entering the password.
8. Locate the WiFi network in the app and enter the password to join your home wireless network. Press **Access**.

9. Return to the settings of the phone and reconnect to the home WiFi network. Go back to the Wondrwall app when the phone is connected to it. The light switch will restart.
10. If using an Android device and the app says '**Connection error**', press **Try again**.
11. If using iOS and there is an issue on the app at this point, switch the mains power off and on, wait 2 minutes and repeat the initialisation process.
12. After configuration, press **Specify** on the house setup screen to specify your home location. This feature allows Wondrwall to adjust the environment and energy consumption settings depending on how far you are from home. Follow the on-screen instructions to choose a location on the map.
13. Choose a house type and press **Next**.
14. Name your house in the next screen and press **Save**.
15. Now, press the displayed location name to show a list of existing locations. Each Wondrwall light switch needs a different location name for Alexa to recognise it. Press the one you require to select it. Alternatively, press **Create new location** to specify a new location. Press **Next**.
16. Type in a name for the light switch and press **Save**.
17. In the device setup page, choose an option from the list that best describes how the light switch is wired. You will have noted this by checking which buttons turn on lights before you started the pairing process. The selected socket state will display on the screen. Press **Next**. If in doubt how the light switch is wired or you forgot to check, choose **All connected**. Options are:
 - For single lighting circuits, choose **Single right/Single left**
 - For dual lighting circuits, choose **Double**
 - For triple lighting circuits, choose **All connected**
18. Finally, press **Finish** on the success screen to end the installation, or press **Add another device** to continue pairing the rest of your Wondrwall devices.
19. The light switch may need to update firmware after it has been setup, which can take up to 5 minutes. During this time, the light switch is inoperable and the mains power should not be switched off.

After you finish, you will also need to activate Amazon Alexa on the light switch. This will pop up automatically when viewing the light switch in the app. The light switch will show two small LEDs when Alexa is not enabled. Detailed instructions are provided later on under *Connect to Amazon Alexa*.

Pairing Additional Light Switches

You will need to pair all the other light switches installed in your home. This is the procedure for these light switches.

Before you start, note which buttons turn lights on. Options are:

- Not connected (no lights turn on)
- Single left (only left hand button turns on lights)
- Single right (only right hand button turns on lights)
- Double (outside left and right buttons turn on lights but not middle)
- All connected (all buttons turn on lights)

Video guide: [How to pair additional light switches](#)

1. Ensure the phone/tablet is connected to your home WiFi network.
2. Either press **Add another device** in the success screen, or the **+** on the devices screen, then select **Light switch** from the device selection list.
3. If not already done, remove the front cover of the light switch to locate the functional button. Press **Next** on the app. Use a pin or wire to press and hold the button for at least 10 seconds until all LEDs flash. Release the functional button and press **Next** on the app.
4. The app will say '**Searching device**' followed by '**Configuring device**', however if the app says '**No device found**', then select **Pair again**. If the light switch is still in pairing mode then you do not need to hold the functional button again.
5. If using an iOS device and the app says '**Unable to configure the device**', then go back to the devices page and delete the new device named **N/A**. Switch the power off and back on at the mains, wait 2 minutes and attempt to pair again. Wait for the master light switch start up and make a beep sound before re-trying.
6. If using an Android device and the app says '**Connection error**', press **Try again**.
7. After configuration, press the displayed location name to show a list of existing locations (scroll down if necessary). Press the one you require to select it. Alternatively, press **Create new location** to specify a new location. Press **Next**.
8. Type in a name for the light switch and press **Save**.
9. In the device setup page, choose the option from the list that best describes how the light switch is wired. You will have noted this by checking which buttons turn on lights

before you started the pairing process. The selected socket state will display on the screen. Press **Next**. If in doubt how the light switch is wired or you forgot to check, choose **All connected**. Options are:

- For single lighting circuits, choose **Single right/Single left**
- For dual lighting circuits, choose **Double**
- For triple lighting circuits, choose **All connected**

10. Finally press **Finish** on the success screen to end the installation, or press **Add another device** to continue pairing more devices.

11. The light switch may need to update firmware after it has been setup, which can take up to 5 minutes. During this time, the light switch is inoperable and mains power should not be switched off.

After you finish, you will also need to activate Amazon Alexa on the light switch. This will pop up on the device screen after a short while. Detailed instructions are provided later on under *Connect to Amazon Alexa*.

Setting up Complex (Two-Way) Light Switches

The lighting on the stairs, the hallway and the landing will only be controlled by a single switch until you have setup the complex lighting. You may also have a light switch that is not connected to any lights but is powered. This could be setup for complex lighting so you can control other light switches wirelessly.

You must link the upstairs and downstairs switches together so that both light switches control the light that illuminates the stairs. The same applies for two-way light switches in hallways and landings.

Video guide: [How to setup complex light switches](#)

1. Ensure that the light switch which is not connected to any lights is configured as **No connected**.
2. Select the first light switch in the devices screen and press **Complex Lights**.
3. Press **Link another light switch** in the complex lights page.
4. Select the second light switch from the list.
5. Press one or more buttons on the second light switch. This links those buttons to the light connected to the first light switch. The link is shown by a dotted line. Press **Save** to save the arrangement. Both light switches now control the same light.
6. Repeat this procedure to link any more light switches.

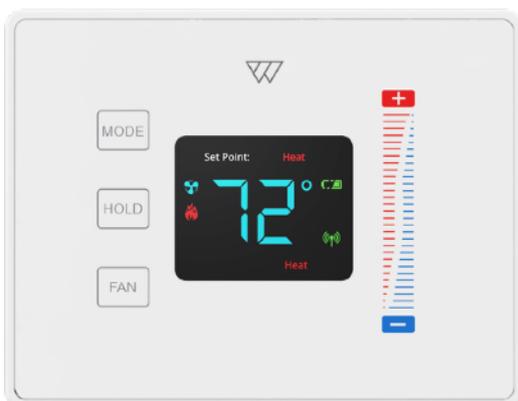


Pairing Thermostats

To get the intelligent heating controls, you will need to pair the Wondrwall thermostats installed in your home. Typically you will find one in the hallway and in many new homes, you will find a second upstairs.

Video guide: [How to pair the thermostats](#)

1. Ensure the phone/tablet is connected to your home WiFi network.
2. Either click **Add another device** in the success screen, or the **+** on the devices screen, then select **Thermostat** from the device selection list.
3. Press the **MODE** button on the front of the thermostat until **'OFF'** is displayed on the screen. Press **Next** on the app.
4. Press and hold the space between the **HOLD** and **FAN** buttons and at the same time, swipe a finger down the right-hand slider. The display will change to **'01'**. Press **Next** on the app.
5. Use the red/blue **+/-** buttons on the slider to set the display to **'12'**, then press **HOLD**. This enters the setting to join a network. Now use the slider again to set the display to **'01'** and press **HOLD** to pair with the Wondrwall network, then press **MODE**. Press **Next** on the app.
6. After configuration, press the displayed location name to show a list of existing locations (scroll down if necessary). Press the one you require to select it, providing the name is unique and not already used. Alternatively, press **Create new location** to specify a new location. Press **Next**.
7. Finally either press **Finish** on the success screen to end the installation or **Add another device** to continue pairing devices.



Pairing the Alarm Siren

Note: if you are in an apartment, an alarm siren will not be included.

We recommend that you pair the siren before you fix it to the wall. If it is already mounted, you will need to take it off before you can complete the pairing process.

Video guide: [How to pair the alarm siren](#)

1. Ensure the phone/tablet is connected to your home WiFi network.
2. Either click **Add another device** in the success screen, or the **+** on the devices screen, then select **Siren** from the device selection list.
3. Remove the cover. Press **Next** on the app.
4. Press and hold the function button for about 10 seconds until the right side LED flashes. The function button is labelled '**Learn**' and is located to the left side of the small blue component. Release the button. Press **Next** on the app.
5. After configuration, press the displayed location name to show a list of existing locations (scroll down if necessary). Press the one you require to select it. Alternatively, press **Create new location** to specify a new location. Press **Next**.
6. Finally, either press **Finish** on the success screen to end the installation or **Add another device** to continue pairing other devices.
7. Replace the cover and use the screw to fix it in place.
8. Attach to the outside of the house, high up and in a location where it can be seen.



Pairing the Key Fobs

The key fob is used to arm and disarm the security system as well as a useful ID feature and panic button.

1. Ensure the phone/tablet is connected to your home WiFi network.
2. Either click **Add another device** in the success screen, or the **+** on the devices screen, then select **Key Fob** from the device selection list.
3. Insert the battery into the key fob, press **Next** on the app and then hold the button for 1 second.
4. Type in a name for the key fob and press **Save**.
5. Press **Finish** on the success screen to end the installation or **Add another device** to continue pairing other devices.



Connecting to Amazon Alexa

You can talk to every light switch in your home and issue Amazon Alexa commands. You can use these commands to control the functions of the Wondrwall system but also to order a taxi, order a pizza, get the news/weather forecast, buy things from Amazon and play music.

1. Go to www.alex.amazon.com or download the Alexa app from Google Play or the Apple App Store and login with your Amazon account username and password.
2. Select **Skills** from the menu, and search for **'Wondrwall'**.
3. Click on Wondrwall in the list to display its screen. Click **Enable** to activate the skill and to add it to your Alexa skill list. Alexa automatically discovers your Wondrwall devices however if it does not, you can say **"Alexa, discover devices"**.
4. You can now use Alexa and control your Wondrwall system through Alexa voice control. The Wondrwall Home Automation screen lists example commands to give your Wondrwall system, for example, **"Alexa, turn on the bedroom light"**. (For more information about general Alexa features, see www.alex.amazon.com).
5. If you add more devices to your Wondrwall system, you can add them by selecting **Smart Home** from the menu at the left hand side of the Alexa app/portal. Click on **Manage Devices** and **Discover Devices**, or say **"Discover devices"**.

Please note that if you rename a device in the Wondrwall app, it will not update on the Alexa app so you would need to either rename both or delete the device on Alexa and re-discover devices.

Process for Alexa activation on the light switch

1. The light switch will send an activation request after the device has been through the commissioning process.
2. You will receive a request on the app: **'Enable Alexa Voice Service'** or **'Light switch is ready to enable Amazon Alexa'** dialog will be shown. The dialog can be shown from screens:

- Home screen
- Device details
- Device info screen



3. You must select **Allow** from the dialog and confirm action from the browser window which will open automatically.
4. If you select cancel from the dialog you will have the ability to activate it by using **Re-activate Amazon Alexa** in the light switch info screen.

Amazon Alexa naming of Wondrwall devices

Amazon Alexa uses the location of the device for voice control. The location is set in the Wondrwall app during the commissioning process as described above or you can change it later in the device info screen in the Wondrwall app. For example, if you have a light switch in location Living Room, Alexa will recognise this device as Living Room Light. If there is more than one light switch in the same location, for example, two light switches in the hallway, saying “**Turn off the hallway light**” will turn off both lights. If you want to control them independently, then you will need to change the location to be unique (such as ‘**Living Room Front**’ and ‘**Living Room Rear**’). This can be done at the setup stage or later.

Connecting to Sonos

No special setup is needed for Sonos speakers. If these are already installed in your home and on the same WiFi network as Wondrwall, then the system will automatically detect and be able to control them. You will need to have downloaded the Sonos app and setup the speakers through this, as well as enabling the Sonos skill in the Alexa app in order to issue voice commands through the Wondrwall light switches. If they are not already setup, then follow the instructions to setup the Sonos speakers in the Sonos app. The **Sound** section is where you can control the Sonos speakers in the Wondrwall app.

SONOS

Operating your Wondrwall Intelligent Home

Once the Wondrwall system is set up, it works in the background, learning how you live and aiming to make your life easier. This section describes any tasks that you may need to do on the devices themselves.

Wondrwall App

Common icons that you will see in the app are:

| | |
|---------------------|---|
| Menu: | Press this to display and hide the menu. |
| Information: | Press this to display more information about a device. |
| More: | Press this to display more options. |
| Back: | Press this to return back to the previous page. |
| Add: | Press this to add a new device, location or house member. |

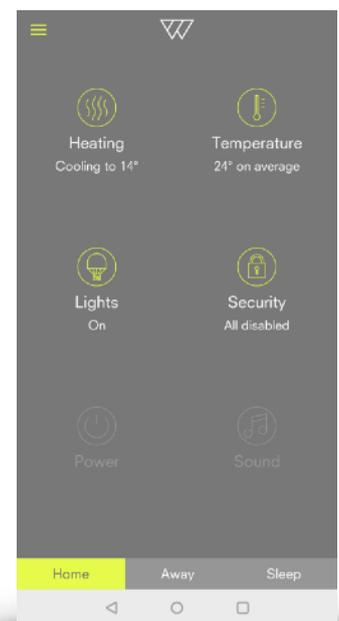
Wondrwall App: Sections

The Wondrwall app is self-explanatory, however this section will help you navigate around the app. Pressing the menu button (three horizontal bars) will bring up the menu sidebar giving access to various different pages as listed below.

Modes:

Wondrwall learns your normal routines, but you can touch the **Home**, **Away** and **Sleep** mode buttons to allow you to select the most appropriate mode at any time. You can setup these modes via the behaviour button on any light switch device page.

There are 3 modes on the Wondrwall app which you can use. When viewing a light switch in the app, by going to **Behaviour**, you can select what security settings you want enabled during each mode. For example, you may want to have all 4 security settings enabled during Away mode, but just 1 setting enabled during Home mode. To change modes, you can press the key



fob button (switches between Home and Away) or use the bar at the bottom of the app (to switch between Home, Away or Sleep) or use Alexa via voice (see Alexa section for how to do this).

Devices:

The devices page displays a list of your devices. To add another device, press +.

To view and edit a device in the list, touch the device name to display status information, setup complex lighting or to set the Home/Away/Sleep mode behaviour (light switches only).

Press **i** to show device information, change its name and location or to delete the device. Press **Save** if you make any changes.

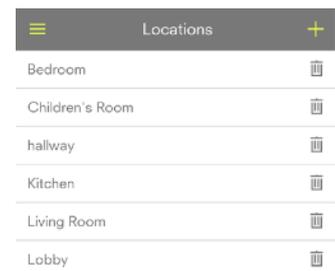


Notifications:

The notifications page displays a list of any system notifications such as alarms. The notifications can be filtered by type and acknowledged by pressing it. If you like, you can filter this to only show certain types of notifications, such as unread.

Locations:

The locations page lists all the locations of devices in your Wondrwall system. Press + to add a new location, or the bin to delete a location. A location is another name for a room.



Members:

The members page lists the members of your house who can access the system but have limited editing ability. For example, if you have a cleaner that visits, you may want them to be able to disarm the security system only for when they visit but not make any other changes.

Press to generate an access token to give to a new member.

They need to use this token when they press **Join as a member** on the login page of the

Wondrwall app (they will need to download the Wondrwall app to their phone). Please note that anyone joining the home as a member will need to sign into a different Amazon account to the main account holder.

Settings:

The settings page allows you to select the temperature scale (°C or °F), the time zone, location, notifications settings within your phone settings and to log out of the system. Press **Save** if you make any changes. Smart location when enabled will detect when you are not at home (using your phone's location settings) and prevent the heating coming on. Likewise, when you are at home, the heating schedule will run because someone is present in the home.

About:

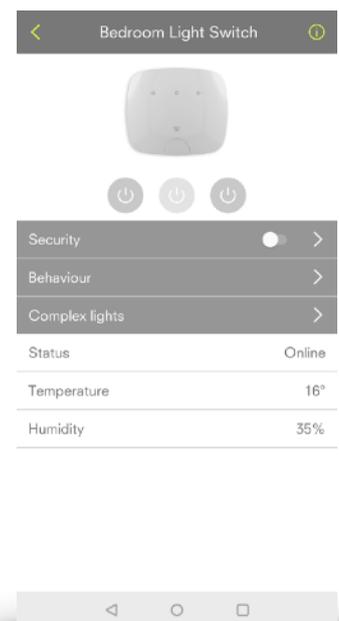
The about page displays the Wondrwall version. This information can be useful when talking to technical support. This is where you can find the app version if required.

Device Info and Settings

Light switch

Clicking on the light switch name in the devices or lights page takes you to the setup page for that light switch. On this page, you can get the temperature and humidity readings for that room. You can also turn the lights on and off remotely if you have an active internet connection. You can also change the security/behaviour settings for each individual light switch. See the *Security* section below for further details.

Pressing the **i** for information gives additional data about the light switch. You can change the name, location and see that the device is functioning correctly and monitoring your home. If necessary, you can change how the lights are connected, for example, if you were unsure and initially chose **All connected** to see which circuits are connected, you can change this to the correct setting. You can also change the WiFi network should

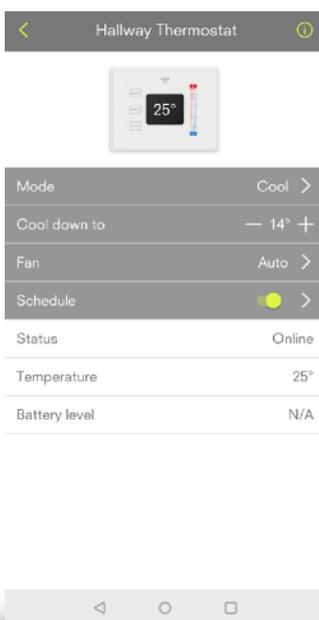


this change at any time. If you do this, start with the master light switch and ensure that the other devices are changed too.



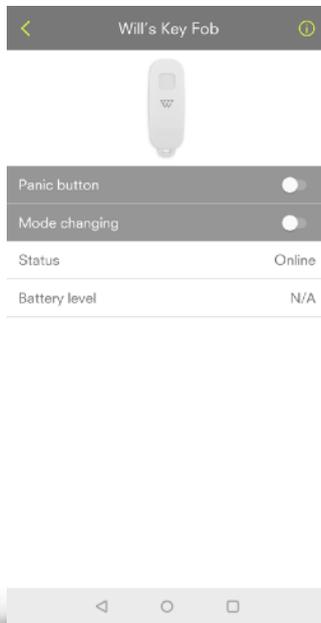
Thermostat

Accessing the thermostat device page lets you make changes to how the heating and cooling is controlled. See the section on *Heating* for more information. Accessing the information page gives additional information as well as allowing you to change the thermostat's name and location.



Key fob

Accessing the key fob page allows you to view the status of the device and its battery level. On the information screen you can edit the name of the key fob. Single pressing the key fob button will switch between Home and Away mode.



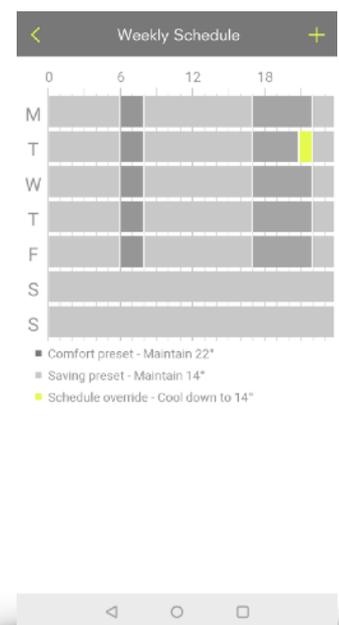
Heating

Heating schedule

To see the heating schedule, press the **Heating** button on the home page to display the thermostat status page.

Press **Schedule** to display the schedule screen. There will be nothing here until you add a schedule using the **+** button. Once this is setup, you will see up to 3 different colours. Dark grey indicates the comfort preset temperature during the time specified, light grey indicates the saving preset during the time specified and green indicates when the schedule has been overridden.

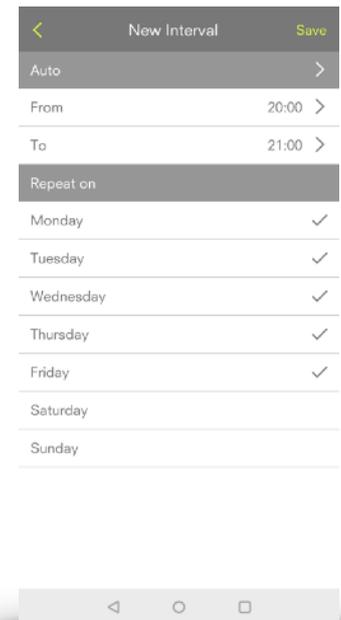
When adding a schedule, you can specify the comfort target temperature, start and stop times and days for the schedule to run. By selecting the top grey bar **Maintain X°** you can change



the presets for comfort and saving preset. Comfort means ideal temperature when home and saving means the temperature that you never want the house to be below, even when not home. Keeping the mode in Auto will allow the system to heat and cool when necessary and gives greater flexibility than Heat or Cool alone. Press **Save** when done. You will now have a dark grey bar on the schedule. The system works by aiming for this target temperature but will only turn on the heating if you are home during this time. Smart Location in the Settings will need to be enabled for this.

The system will aim for the comfort preset temperature when you are at home as this is the ideal temperature that you set. Outside of your schedule times, it will reduce to the saving preset temperature to save energy but will not let the temperature drop below the saving preset level, maintaining a minimum temperature.

To override the heating schedule, on the thermostat page, set the mode (cool, heat or emergency heat (boost)) and slide the schedule switch to the right (green). The schedule is now overridden until the schedule switch is moved back to the left (grey).



Thermostat: changing temperature set points

To increase the temperature set point, slide your finger upwards along the slider towards the + icon. To decrease the temperature set point, slide your finger downwards along the slider towards the - icon. The set point displays on the thermostat page and will update on the app.

Thermostat: changing temperature display

The default setting for temperature on the thermostat is °F. To change to °C, follow the steps below:

1. Press the **MODE** button on the front of the thermostat until **'OFF'** is displayed on the screen.
2. Press and hold the space between the **HOLD** and **FAN** buttons and at the same time, swipe a finger down the right-hand slider. The display will change to **'01'**.

3. Press **HOLD**, then the - button until the display reads '00' to select the Celsius option, then press **HOLD** to save the new setting.
4. Press **MODE** to return to normal operation.

Lighting

Switch lights on/off

On the app, press the **Lights** button on the home page to display the lighting status page. Press to switch a light on and off.

To turn off all lights in the system, switch the **Turn all Off** switch to the left (grey). You can also operate the lights from the **Devices** page, by going into each device. The three on/off buttons can be controlled from this screen.

At the light switch, press a circle on the front of the light switch to turn the light on and off. Which one depends on the number of lighting circuits you have. Central circle for one circuit, the outer circles for two lighting circuits, or all three circles for three circuits.



Light switch: voice control

Touch and hold the **W** icon on the front of the light switch and ask a question or give a command, such as **“What is the weather today?”** or **“Make it warmer”**.



Security

To see the all security devices on the system, press the **Security** button on the home page. To add more security devices, press +.

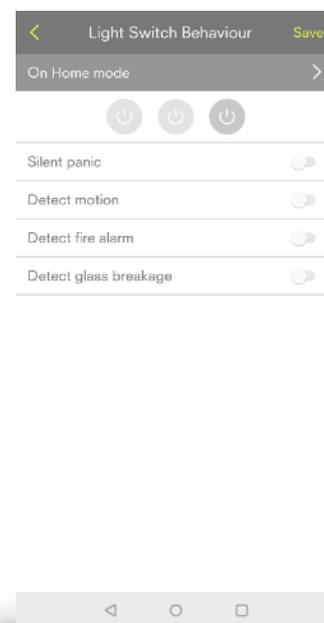
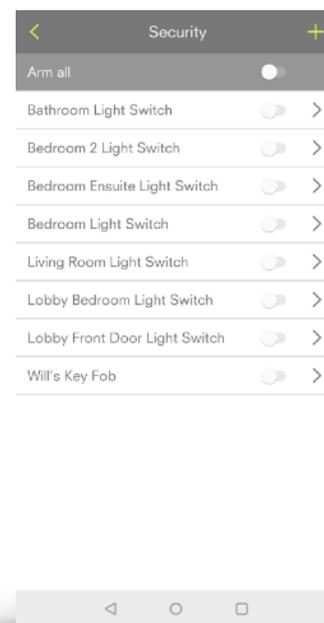
To set the security options for each device, press the device name on the security page. Slide the switch to the right to enable the option (on - dark grey) or to the left to disable the option (off - light grey).

For light switches, on the device page press **Security** to show the options of silent panic, detect motion, detect fire alarm, detect glass breakage. The settings here are applied to the current mode chosen. Silent panic is when all lights connected to the light switch turn on to attract attention and deter potential intruders.

The security options for each device can be switched on individually, or slide the **Arm all** switch to the right to enable security settings on all devices.

Key fob: panic button

To raise an alarm, simply hold the button on the key fob for 5 seconds. Depending on the security settings that you set, the siren will sound and/or silent panic will start, whilst simultaneously sending an alert to all your house members who are logged into the system. The app will then allow you to stop the panic and disarm the siren.



Using Amazon Alexa

You can access the Alexa voice technology by pressing and holding the **W** on any Wondrwall light switch. You can ask Alexa anything and then release when you have finished. Alexa will then respond.

The Wondrwall skill for Alexa will help you to control your smart devices such as smart light switches, thermostats and operate scene switching in your house. Alexa uses the location of the device so for example, if you have more than one light switch in the living room, saying **“Turn off the living room light”** will turn off all the lights in the living room.

Connected smart lights switches:

- **“Alexa, turn on the bedroom light”**
- **“Alexa, turn on bedroom middle light”**

Scene switch:

- **“Alexa, turn on the Home scene”**
- **“Alexa, turn on the Away scene”**

Temperature:

- **“Alexa, what is the temperature of the bedroom?”**

See our guide to Alexa for more information and suggestions on what to ask Alexa to make your life easier. You can get ideas on what Alexa can do from the Amazon Alexa page: www.amazon.co.uk/I/12728352031. Or just search for things to ask Alexa.

Technical Support

If you need additional help, get in contact with our technical hotline. We are available via email but you can give us a call.

T: 0161 533 0150 and choose the option for technical support

E: support@wondrwall.co.uk

