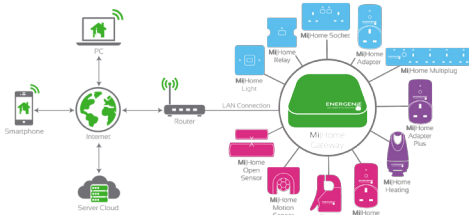


## User Manual

### Energenie MiHome Gateway

The Gateway provides the communications between all your MiHome devices and the internet



### Out of the box

1. Gateway
2. PSU adapter
3. MicroUSB cable
4. Ethernet patch cable



1



2



3



4

## Quick Start

### IF YOU DO NOT WANT TO READ THE FULL MANUAL

1. Connect your Gateway to your home router by plugging one end of the ethernet cable into the socket on the Gateway and the other end into one of your router's free ethernet sockets.
2. Plug the PSU into an adjacent free mains wall socket and switch on.
3. Plug the microUSB cable into the Gateway and the PSU.
4. The Gateway should now be powered and connect automatically via your router to the internet. This is indicated by the light on the front illuminating orange then steady green. It may take up to 20 seconds for this to happen. The light will also blip briefly red as message traffic is being exchanged.
4. Manage your Gateway and MiHome devices using one of the methods as follows:

### Using a Smartphone App (iPhone/Android)

1. Download the MiHome smartphone app from the appropriate store (i.e Apple Store/Play Store) and install and then open it.
2. Follow the on-screen instructions that will take you through the Gateway set-up process.

### Using a Browser and Internet Server

1. Go to the server by selecting the web address **mihome4u.co.uk** in your chosen browser. Here you can create an account.
2. Then go to **Manage Devices** and register your Gateway device using the IO digit key code on the back of your Gateway.

### Visit [mihome4u.co.uk](http://mihome4u.co.uk)

Scan this QR code with your smartphone QR app to take you directly there.



# MiHome Heating (eTRV)

## Quick Start Guide

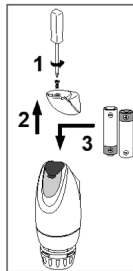
### Remove your existing TRV head

- **Step 1** - turn the TRV thermostat anticlockwise as far as it will go.
- **Step 2** - release the base by turning it anticlockwise, by hand or with a spanner as appropriate.
- **Step 3** - pull existing TRV thermostat off the valve.

### Insert the Batteries

Using a Phillips screwdriver unscrew the battery cover and remove it. Ensure that the screw is still held in by the small rubber washer to prevent it being lost. Insert the two AA (LR6) batteries that came with the eTRV into the battery compartment as shown.

Make sure you insert the batteries the right way round. Inside the battery cover there is a diagram showing which way to fit the batteries when looking at the front of the eTRV. Put the battery compartment cover back on holding it in place while you gently tighten the screw. Overtightening may crack the screw seating.



After installing the batteries you should hear the motor running and the LED lamp slowly flashing red. Wait several minutes until you see the LED lamp flash briefly green then flash orange, indicating it is ready to install on the radiator. It is important at this stage that the stem of the eTRV is fully retracted (in), not extended (out).

Now press the button on the unit for 4 seconds. The lamp should now change from orange to flashing slowly red and the motor should start driving the stem of the valve to set the initial default temperature to 16°C. It may take a minute or so. When this has happened the LED should stop flashing.

### Installing on the MiHome Network

The eTRV now needs to be installed to the MiHome network. This will allow remote control from a smart device such as a smartphone or tablet or from any browser connected directly to the MiHome server.

### Pair with your MiHome Gateway

Once installed the device must be paired with your MiHome Gateway device which you should have already successfully installed.

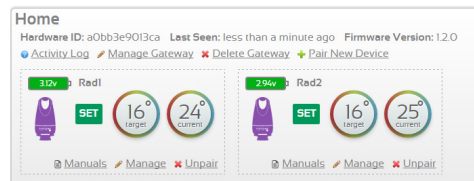
You will need to select the eTRV device to be paired in your smart device App or in the internet browser. Follow the instructions to install the eTRV. This will involve pressing and holding the grey button on the top of the unit for 4 seconds to place it into its pairing mode. The LED will go briefly green then flash red indicating that pairing has started. Pairing is complete when the red LED lamp flashes more quickly and turns off.

### Remote Control

From your MiHome network you will have the following controls for the eTRV:

- Set a target room temperature
- Control radiator heating using timers
- Control using an external temperature reading
- Maintenance functions to exercise the valve, check the battery voltage level or set the valve to fully open or closed

It's currently August 17, 2016 15:24 (server time)



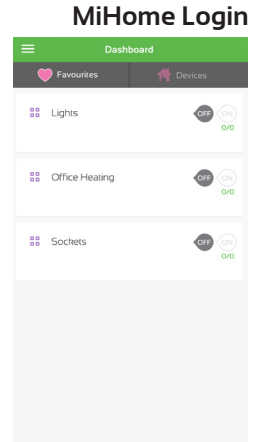
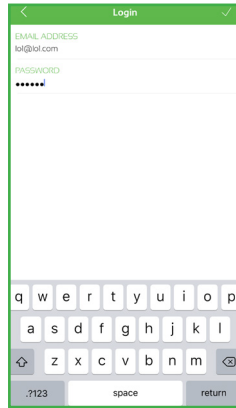
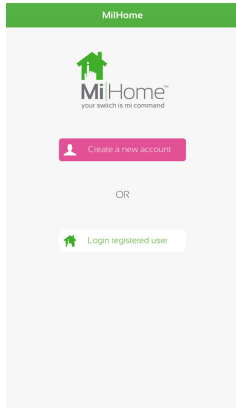
### What the LED indicator means

	Red flash once every five seconds	Dead battery needs replacing
	Red flash twice every five seconds	Low battery needs replacing
	Red flashes continuously	Motor is running
	Three long red flashes	Valve fully closed – stem fully extended
	Three long green flashes	Valve fully open – stem fully retracted
	Green for 2 seconds	Boost selected
	Orange flash continuously	Stem fully retracted – ready for installation to radiator

A more detailed manual can be found on the [www.energenie4u.co.uk](http://www.energenie4u.co.uk) website.

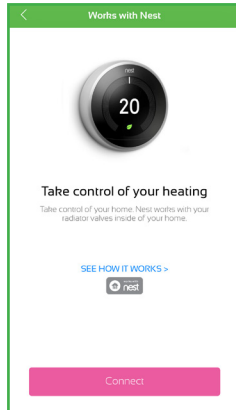
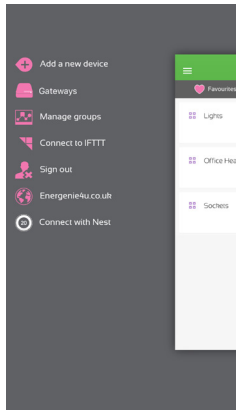
## Setting up the App with Nest

1. Sign into the MiJHome app using your MiJHome account credentials. If you do not already have a MiJHome account you can create an account by pressing the "create new account" button

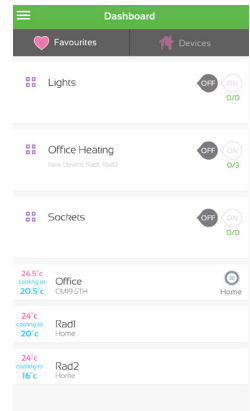
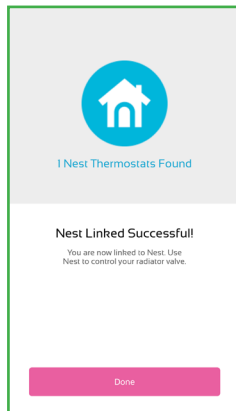
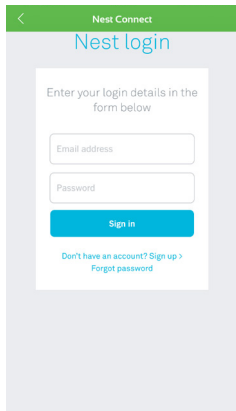
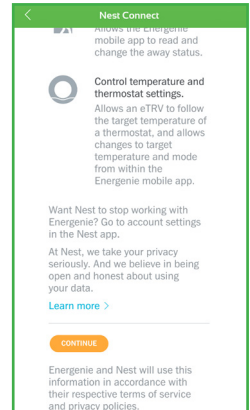


## MiHome Login

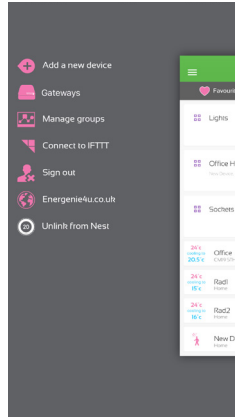
2. To connect a Nest thermostat to your MiJHome account you will first need to select the options menu in the top left hand corner. A list will appear. The last option is "Connect with Nest". You will be prompted to log into your pre-existing Nest account where your Nest thermostat is linked to. After logging in your Nest thermostat will be linked to your MiJHome account



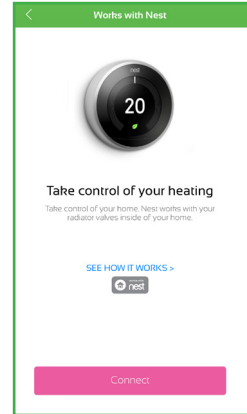
## Linking Nest



3. To unlink a Nest device, first select the options menu in the top left hand corner. A list will appear. The last option is "Unlink from Nest"

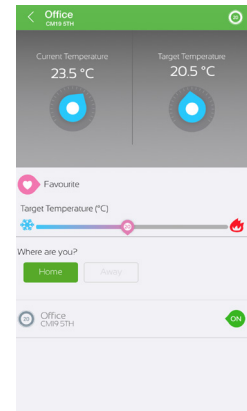


## Unlinking Nest



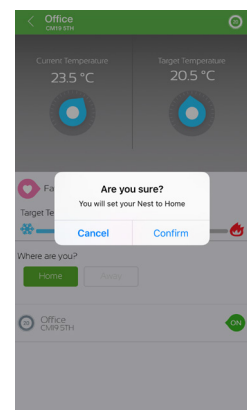
4. You will be able to change the temperature on your Nest Thermostat from your MijHome app by selecting your Nest Thermostat from the dashboard. You will be able to select your desired temperature by sliding the temperature bar. The Nest thermostat will display the updated temperature

## Setting Temperature



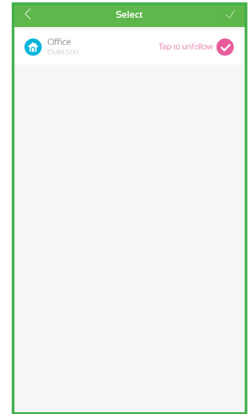
5. You can change your Nest status to either Home or Away by pressing the Home or Away button. When Auto-Away detects when the user has left their house. It changes their status to Away. A note appears to let the user know that "Nest thinks you're away"

## Setting Nest Status



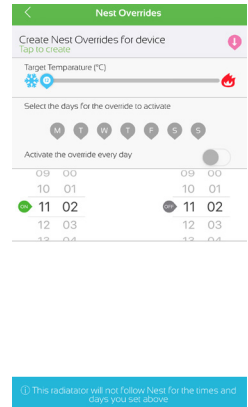
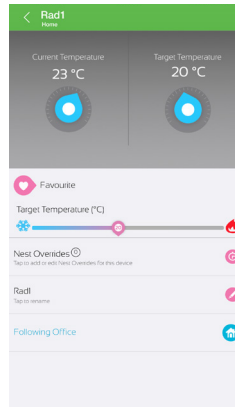
6. You can enable one of your TRVs to follow your Nest Thermostat. By following the Nest Thermostat, the TRV will replicate and maintain the same target temperature as the Nest Thermostat. To do this, select your desired TRV from the dashboard. Select the last option on the page "Follow Nest Temperature"

### TRV Follows Nest



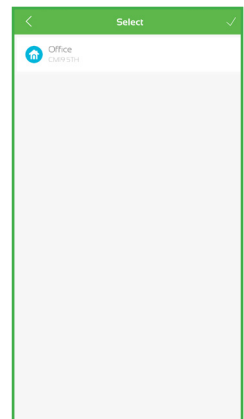
7. An Override timer allows a TRV that is following a Nest Thermostat to ignore the target temperature of the Nest Thermostat for a period. The timer will specify the time of the override, the days to activate the override and the desired temperature during this time. To set an Override timer. Select your desired TRV. The option to set an override timer below the temperature slide bar. You will need to define the temperature, times and days of the override

### Setting Override Timers



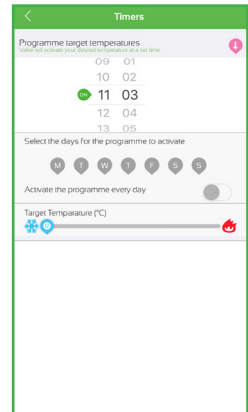
8. To unfollow a Nest thermostat select your desired TRV from the dashboard. Select the last option on the page "Unfollow Nest Temperature"

### Unfollowing Nest



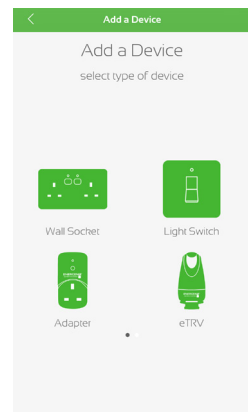
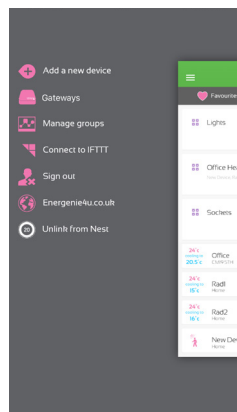
9. To set a timer for a TRV, the TRV should not be following a Nest thermostat. To do this, select your desired TRV from the dashboard. Select programmes, You will need to define the temperature, times and days

## Set Timers



10. To add a new TRV you will first need to select the options menu in the top left hand corner. A list will appear. Select add device. Then select TRV. Follow the on screen instructions. Hold down on the grey button on the TRV

## Extras





## FAQ

### Q. How do I update my Gateway with the latest version of firmware?

A. Mandatory firmware updates to the Gateway are done automatically from the MiHome server. These will include fixes and other required features. Optional updates are indicated in the Managed device screen and can be uploaded by user confirmation.

### Q. The version of firmware on my gateway is shown as Unknown? What does this mean?

A. The server was unable to confirm the version of the firmware installed. To rectify this, please remove power from the gateway for 10 seconds, then reconnect the power.

### Q. How Can I ensure the device timers stored on my Gateway are not still active?

A. You can press the reset button on the front of the housing with a paperclip or similar pointed device to clear all timers.

### Q. My Gateway has crashed and is not working at all. How can I revert to original factory state?

A. With the Gateway power switched off, press the reset button on the front of unit housing with a paperclip or similar pointed device and hold. Then apply power via the USB to the unit. Keep holding the button down for 10seconds or so after powering on.

### Q. Can I connect my Gateway to the internet via my PC?

A. You can use the patch cable to connect to the internet port on a PC and then use a service such as the Internet Connection Service (ICS) on a windows machine.

### Q. What is the response time once a command has been sent?

A. There may be up to a 5 minute delay before the eTRV can receive a command message and starts reacting to it. It has a pre-set reporting interval of 5 minutes and at the same time it can receive a command message. This is done to enhance the battery life of the eTRV.

### Q. How do I access the service functions

The service functions may be accessed from your browser by going to the settings page for the eTRV and then adjusting the last element (etrv\_control) of the url in the address bar as follows:

[https://mihome4u.co.uk/devices/....subdevices/....etrv\\_maintenance](https://mihome4u.co.uk/devices/....subdevices/....etrv_maintenance)

**This will be changed to a more user friendly link in due course.**