Cosy Electric

Commissioning guide

geotogether.com

Contents

Safety Notice

This system requires a professionally made installation.
See elsakerhetsverket.se what applies for electrical installation and also their e-tool to find installation companies close to your location.

This installation guide is intended for installation engineer use only

It is important to observe some simple safety precautions when installing and using this product. Read this information before continuing. Safe operation of the product is impaired if not used or installed in a manner specified by the manufacturer

- This device is intended to be installed and configured by a competent person only
- Keep electrical products away from water and other liquids. Disconnect from the mains power supply before cleaning (with a soft, dry cloth only)
- Do not mix old and new batteries as this may cause leakage. Do not leave flat batteries inside the unit as this may result in leakage. Refer to the product technical specification for replacement of the correct battery type
- The Hub must be located in an easily accessible location for the purposes of disconnection from the mains
- No user serviceable parts
- If any component appears damaged or faulty do not use device
- In-line Switch must not be used to isolate connected equipment from the mains supply during any activity which requires connected equipment to be safety isolated from the mains supply.
- Do not cover any device
- Use supplied mains adaptor only
- This device is not a toy and may contain small parts which could present a choke hazard to small children. Keep out of reach of children

Isolate mains supply before removing any covers. When connected to a live mains supply, all internal parts are at mains potential. No user serviceable parts inside

For use in dry, indoor environments only

At the end of its life please recycle at a suitable recycling factory. Do not place in general waste

These products are CE approved

Hub

In-line Switch

Sensor

High Voltage In-line switch

Hub

The central controller in the system. It communicates with the Internet via the customers router and with the controllers and sensors via radio

In-line Switch

A mains-powered wireless controlled switch, suitable for any domestic 230V mains powered application up to 16A. It is fitted in-line with the device power cable

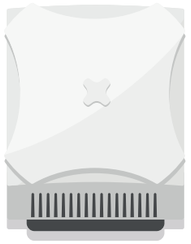
Sensor

Measures temperatures and is a battery operated device (batteries supplied). Every heating zone in the heating system must also have a Sensor

High Voltage In-line Switch

A single in-line switch that can control the supply to 2 phase devices at 400V up to 2.4KW

Transmitter + LED sensor



Under Floor Heating Controller

Heat Pump (IR sensor)

geo Home app

Transmitter + LED sensor

A battery powered device which sends energy data wirelessly to the Hub. The LED Sensor attaches to the front of the electricity meter and connects to the transmitter

Under Floor Heating Controller

A drop-in replacement for existing controllers and is designed to use the existing wiring and floor sensor (where fitted)

Heat Pump (IR sensor)

Controls the Air Source Heat Pump via its infrared window and connects to the customers WiFi

geo Home app

Providing visibility and control of energy.

Available from: Download on the App Store · GET IT ON Google Play

geo Home app

Download the geo Home app from the Android or iOS app store. The commissioning process happens on the geo Home app, ensure timezone and locations settings have been set correctly to allow the system to work more efficiently.

> ⚠ Do not pull the rear tab out of the device until the sensor is ready to pair. This will save you time during the installation

Pairing code

NOTE: Please take note of the pairing code of each device and location as it's installed. You'll need this for configuration of the system later

_____

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Sensors

The Sensor can be wall mounted using the hanging hole in the rear of the device it can also be mounted anywhere that is out of the direct sunlight and away from draughts. Once mounted please follow the instructions in the app

When everything is installed use the app to add and pair the devices and configure it for use.

- Sensors will attempt to pair for 5 mins after they are powered up, after which manual pairing will be required
- The led will flash amber until it is paired
- When the pairing is complete the led will change to flashing green for a short time, then go off

If manual pairing is required go to page 16

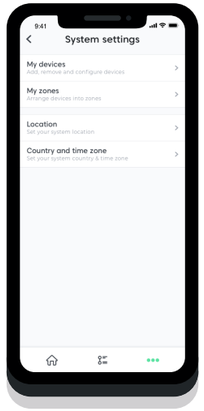
What the Switch will be controlling i.e. panel heater, hot water or other, needs to be set during this process

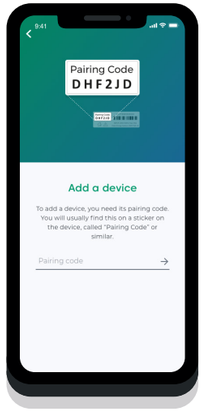
Pairing devices and configuration using the app

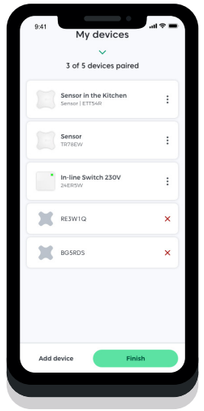
Add each Sensor and Switch in the system using the pairing code:

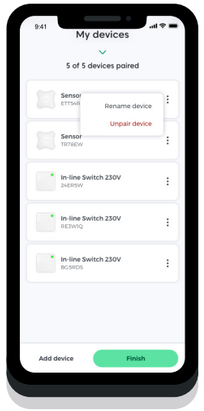
1. Navigate to the More (...) > System settings > My devices
2. Enter all pairing codes for each device
3. The pairing code is printed on each device
4. You should now see all devices
5. If devices are powered on they may show as already paired
6. Paired devices are shown as an icon
7. Rename device names
8. You should now see all devices

Note: Ur RE3W1Q ıre paired the icon will look like this





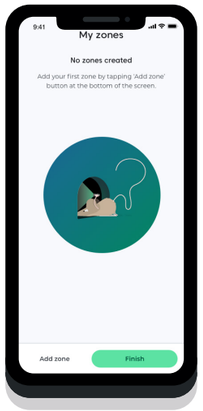


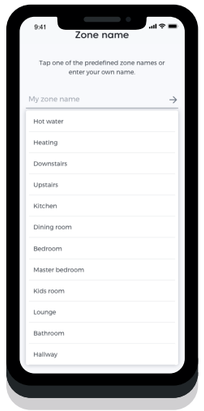


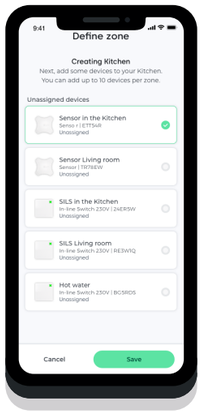
Create Zones for heating and assign devices to them

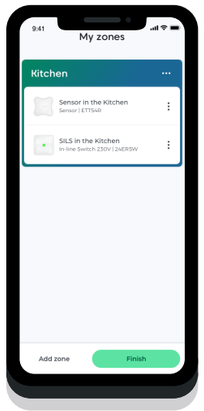
1. Note that this stage is easiest if you have already decided or documented your zone names and know which devices / channels are in which zones
2. Select My Zones > Add a zone

   If there are no zones set up already you will be taken straight to the 'Zone name' screen. Enter a new zone name, or select an existing name from the list
3. For heating zones
   - For each heat source in a zone, add the associated heating device(s) to the zone
   - Ensure that one Sensor is also added to each heating zone
   - Press Save
   - Repeat for each heating zone
4. Press "Finish" when all zones are configured



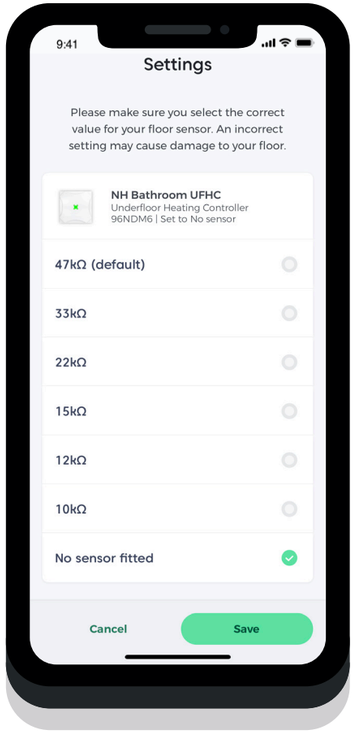






Under Floor Heating Controller - Setting the sensor resistance

Make sure you select the correct value for your floor sensor. An incorrect setting may cause damage to your floor



Transmitter + LED Sensor

In order to complete the setup of the LED transmitter within the app, there are two pieces of information that are required:

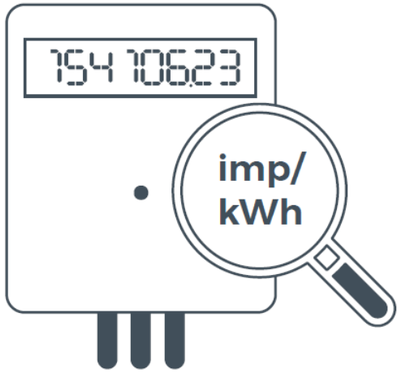
- **The number of LED flashes per kWh (usually denoted as imp/kWh)**
- **Your energy tariff**

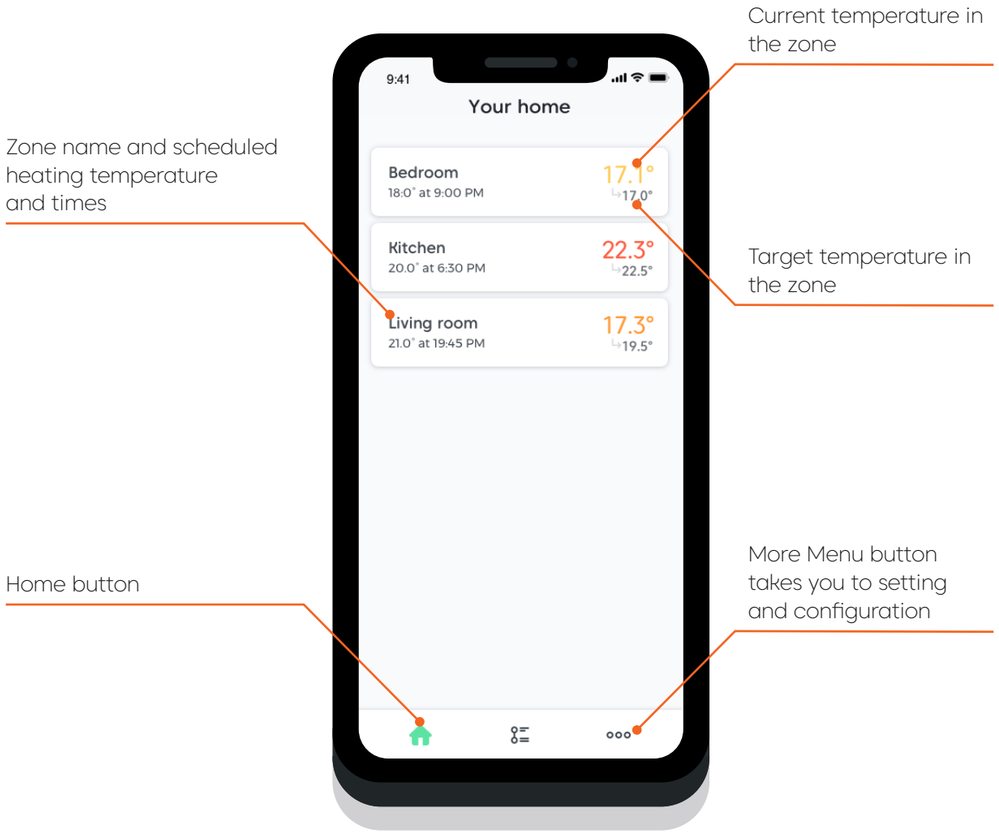
Without both pieces of information the app will not correctly show your electricity usage or cost; the app will warn you if you have not entered either of them.

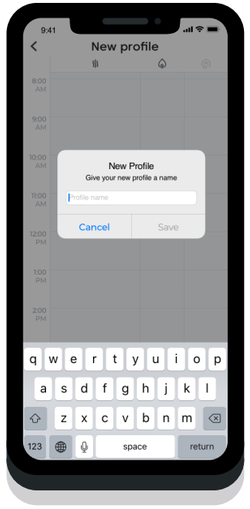
The app needs to understand the pulse rate of your meter so it can accurately produce your readings.

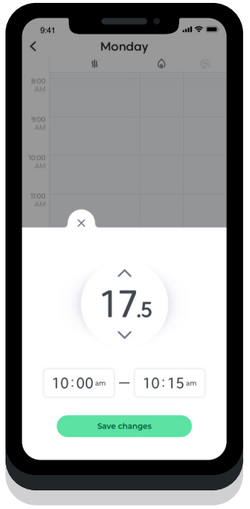
This will be the IMP/kWh Pulse rate number that is printed on the front of your meter, it will likely be near where you apply your sensor.

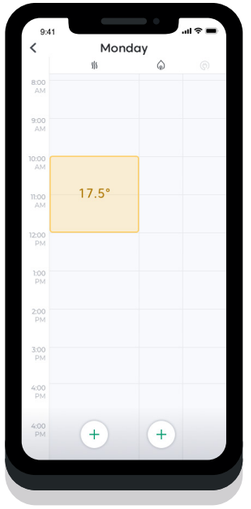
Once you have this to hand, please enter it into the app by going to More Menu > System Settings > My Devices > *Select the 3 dots for your transmitter* > Device settings > Enter both your IMP/kWh and tariff details and select save.





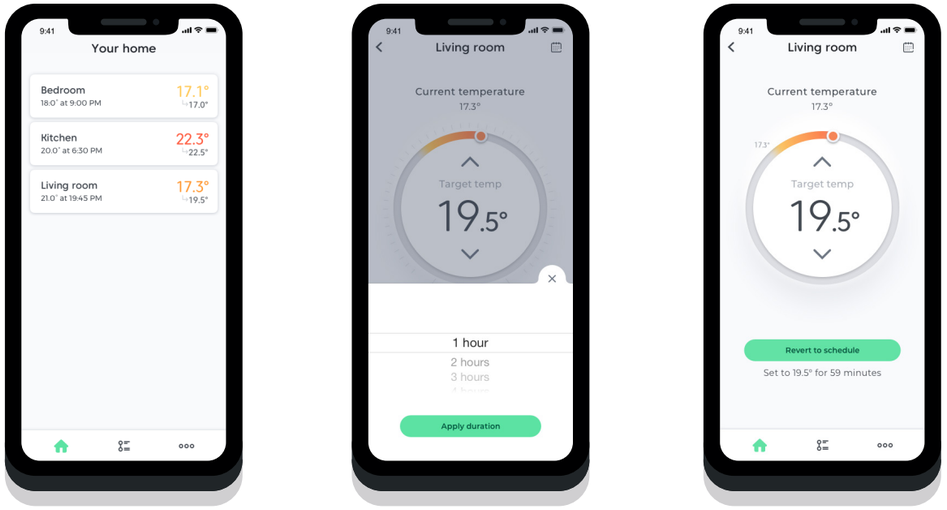






Setting a schedule

1. The app comes with two default profiles; a Weekday and Weekend profile. You can have in total 14 different profiles
2. Create your own custom profiles as well as including your own preferred times for your heating schedule within them.
   Add new profiles by selecting More Menu > Schedules > Select zone > New profile
3. Tap to create a new profile and add a profile name (e.g. Monday)
4. Set the temperature required and the time you want your schedule to turn on / off
5. Your new heating event will then be displayed in the profile view



Boosting your heating

1 Select the zone you would like to adjust from the Home screen

2 Adjust the temperature dial accordingly and select override schedule

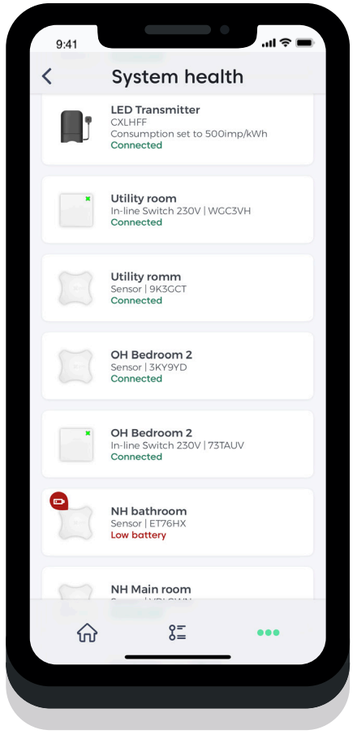
3 Then select the duration and select apply duration

4 After the duration, the heating behaviour will revert to your current schedule

System health

System health gives an overview of the system and a status update on all the connected devices. It can be found by going to:

1 More Menu > System Health



Product	Hub	In-line switch	Sensor
Model	MHx	IS1	WL1
Input	Voltage 5Vdc (use supplied adaptor only)	-	1 good quality Alkaline AA Battery, typically 2200mAh or better
Input and switching Capacity	-	16A 230V ~ 50Hz	-
Switch safety cut-out	-	>24A >20A for Approx. 1s >16A for Approx. 5s	-
Power Consumption	1W (typical)	1W (typical)	
Ingress protection rating	-	IP40	IP30
Operating Temperature Range	0 to +40°C	0°C to +35°C	0 to +40°C
Operating Humidity Range	10 to 85% RH (non-condensing)	5% - 90% (non-condensing)	5% - 90% (non-condensing)

Product	Transmitter + LED sensor	Under Floor Heating Controller	Heat Pump (IR sensor)
Model	LT1	UF1	
Input	3 x AA (LR6) Alkaline Primary Cells	-	
Input and switching Capacity	-	16A 230V ~ 50Hz	
Switch safety cut-out	-	>16A for Approx. 5s	
Inrush current	-	25A for 3 seconds	
Power Consumption	-	1W (typical)	
Ingress protection rating	-	IP30	
Operating Temperature Range	-10 to +40	0°C to +35°C	
Operating Humidity Range	10 to 85%, (non-condensing)	5% - 90% (non-condensing)	
Storage Temperature Range (°C)	-10 to + 55	-	
Storage Humidity Range (% RH)	Storage Humidity Range (% RH)	-	

Where do I find more information about how to install the parts of the product?

There is an installation guide which explains all the steps of the installation process.

How do I get further support about the product?

We have support information available on our website at www.geotogether.com/support

For manual pairing

Sensor: Press and hold the button on the back of the Sensor until the led flashes again. This will start pairing for another 30 seconds

In Line Switch: press and hold the button for between 3 and 6 seconds and then release the button. This will start pairing for 30 seconds

For manual control

A simple quick press for on, another for off.

Manual control will be active until next change in schedule. If you set to off, the LED will turn Red, if on the LED will turn Green

To override the device press and hold the button for >6 second. The device will be set to “always on” and you need to control your heat source manually. The LED will turn solid Amber. To return to Cosy control, press the button for >6 seconds

Manufacturer

Green Energy Options Ltd (geo), CB23 7QS, UK

CE Declaration

Hereby, Green Energy Options Ltd. (geo) (UK) declares that the radio equipment enclosed (identified by the product type numbers on the product label) are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available online at: www.geotogether.com/cedoc

RF Transmitter Information

These devices operate at 868.3MHz (+/- 80kHz). The transmit duty cycle is less than 1%. The peak emitted power does not exceed 25mW.

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