

# Homely System Installation Manual



## Safety Symbols

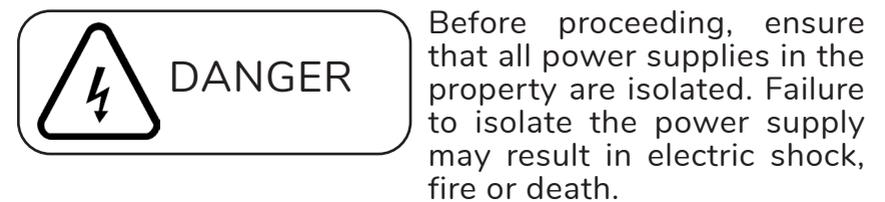
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The following symbols are used in this manual.



## Safety Information

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Installation by unqualified persons may result in product malfunction, electric shock or fire.

The installation must be performed in accordance with the installation instructions before energising.

Incorrect installation of equipment may result in electric shock or fire.

## About this Manual

This manual has been developed to make installation of the Homely system a straightforward process.

Follow the steps illustrated in the following pages to ensure that the Homely device is installed safely and correctly.

Scan the QR code below to visit our YouTube channel where you will find further information about Homely, as well as various installation how-to videos.



We welcome your feedback! Please send all comments to [homely@evergreenenergy.co.uk](mailto:homely@evergreenenergy.co.uk).

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# Installation Requirements

## Items Supplied



HOMELY HUB



HOMELY NODE



POWER SUPPLY



2 X CRIMP FERRULE



NODE STICKER



120-OHM RESISTOR



STICKY PAD

## Items Required But Not Supplied



DATA CABLE  
BELDEN 8723 OR STRANDED  
CAT-5 RECOMMENDED



HOMELY  
INSTALLER  
APP

## Tools Required



WIRE STRIPPERS



PLIERS



MULTIMETER



CRIMP TOOL



SCREWDRIVERS

## Pre-Installation Checks

Before starting the Homely installation, ensure that the heat pump has been installed in accordance with the manufacturer's instructions.

## Installer's Notes

*Use this space to record any observations about the installed system.*

## STEP 1:

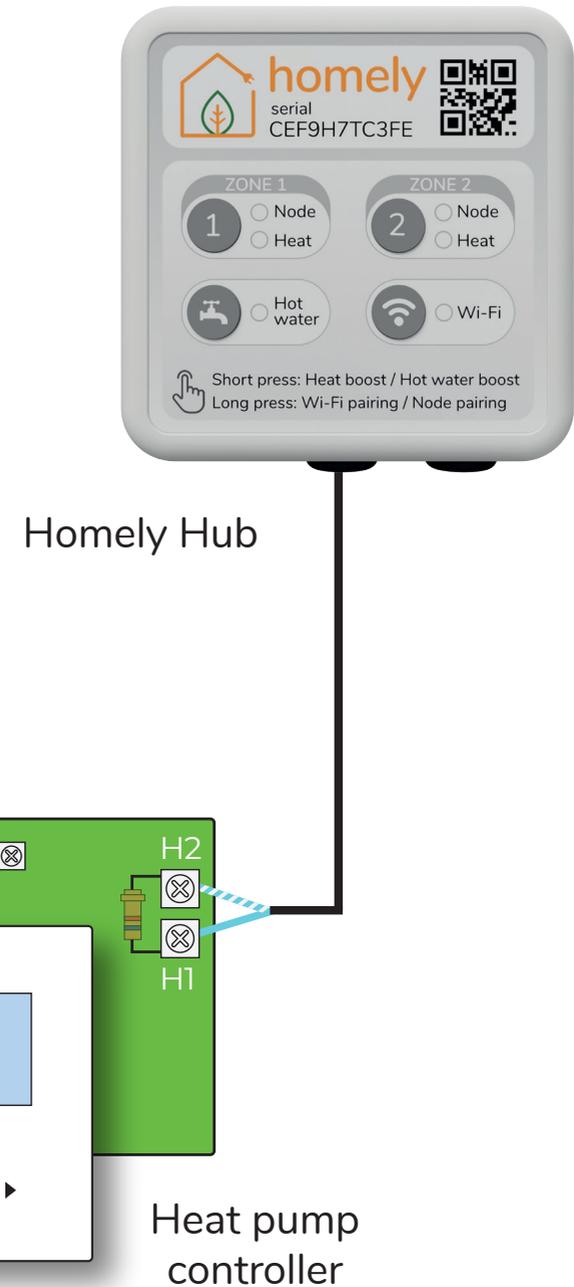
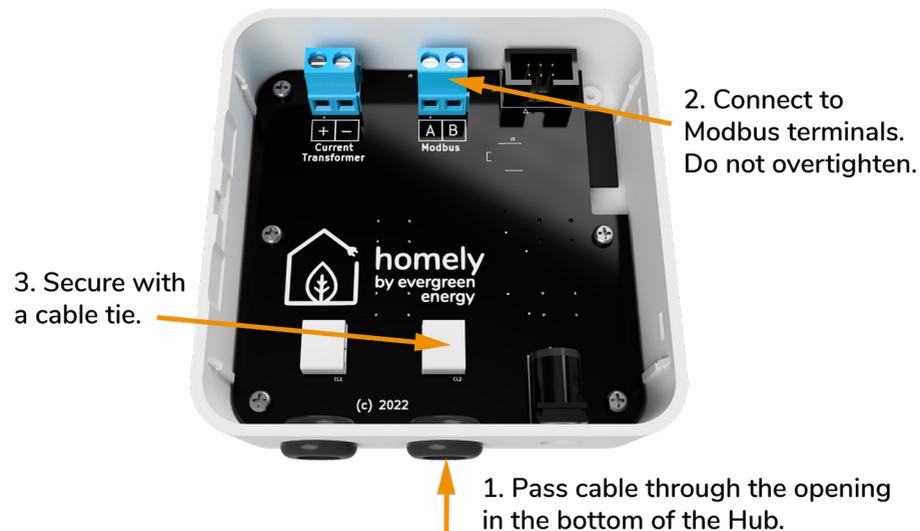
# Complete Connections

Connect the Homely Hub to the heat pump controller with data cable. Belden 8723 or stranded Cat-5 are recommended.

Remove the back of the Homely Hub and identify the terminals for Modbus connection.

A single twisted pair must be used. Connect the A terminal in the Homely Hub to H2 in the heat pump controller. Connect the B terminal in the Homely Hub to H1 in the heat pump controller. Only one wire should be connected to each terminal.

The supplied 120-ohm resistor must be placed between the controller terminals as shown.



## STEP 2:

### Connect the Power Supply

Connect the power supply to the Hub as shown and plug into a power outlet.



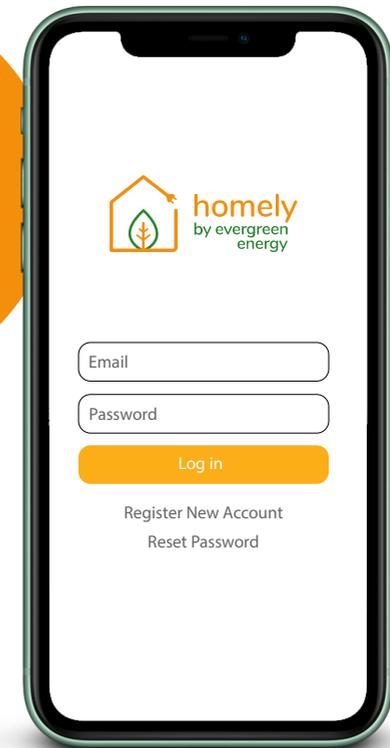
#### NOTE

It may be necessary to install a new outlet on a spur if there is not one within range.

## STEP 3:

### System Configuration

Download the Homely Installer App and register an account



Follow the in-app instructions to connect the Node to the Hub, connect the Hub to a WiFi network and complete the Homely configuration.

Contact [homely@evergreenenergy.co.uk](mailto:homely@evergreenenergy.co.uk) if you do not have a login for the Homely Installer App.

# Specifications

## Homely Hub

Dimensions:  
86 x 86 x 25mm

Communication protocols:  
Proprietary 868MHz  
Bluetooth v4.2  
WiFi 802.11 b/g/n

Power:  
5V  $\approx$  1.0A

Recommended operating conditions:  
10 to 35 °C



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## Homely Node

Dimensions:  
43 x 43 x 14mm

Communication protocols:  
Proprietary 868MHz

Power:  
Internal: CR2450 battery

Temperature Sensor Accuracy:  
Internal: 0.4 °C (max), 10 to 85 °C

Humidity Measurement:  
Accuracy: 2% Relative Humidity (RH)  
Range: 0% to 100% RH

Recommended operating conditions:  
10 to 35 °C



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# UK Declaration of Conformity

This UK Declaration of Conformity is issued under the sole responsibility of Evergreen Energy Limited. Registered address: Evergreen Energy, The Edge Business Centre, The Edge, Clowes Street, Manchester M3 5NA. Contact details:

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Evergreen Energy Limited declares that the Homely system consisting of Homely Hub and Homely Node v2 is in compliance with the essential requirements of the following:

Radio Equipment Regulations 2017  
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012



Signed for and on behalf of Evergreen Energy Ltd:

A handwritten signature in black ink, appearing to read 'Steve Elliott'.

Name: Steve Elliott  
Function: Technical Director  
Place of issue: United Kingdom  
Date of issue: 07/03/2023

## Standards applied

Standard	Description
ETSI EN 301 489-1 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
ETSI EN 301 489-3 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz
ETSI EN 301 489-17 V3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems
EN 55032:2012	Electromagnetic compatibility of multimedia equipment – Emission requirements
EN 55035:2017	Electromagnetic compatibility of multimedia equipment – Immunity requirements
EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
EN 62368-1:2020	Audio/video, information and communication technology equipment – Part 1: Safety requirements

# EU Declaration of Conformity

This EU Declaration of Conformity is issued under the sole responsibility of Evergreen Energy Limited. Registered address: Evergreen Energy, The Edge Business Centre, The Edge, Clowes Street, Manchester M3 5NA, UK. Contact details:

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Evergreen Energy Limited declares that the Homely system consisting of Homely Hub and Homely Node v2 is in compliance with the essential requirements of the following:

Directive 2014/53/EU (Radio Equipment)  
Directive 2011/65/EU (RoHS)



Signed for and on behalf of Evergreen Energy Ltd:

Name: Steve Elliott  
Function: Technical Director  
Place of issue: United Kingdom  
Date of issue: 07/03/2023

## Harmonised standards applied

Standard	Description
ETSI EN 301 489-1 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
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EN 62368-1:2020	Audio/video, information and communication technology equipment – Part 1: Safety requirements

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