



Heimgard

# Smart Thermostat

Quick start guide  
version 1.0

Requires a  
Heimgard hub

# What is in the box

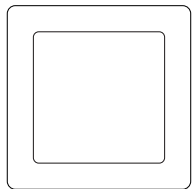
A.  
Smart Thermostat



B.  
Floor probe (NTC 10K)



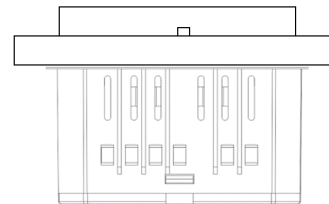
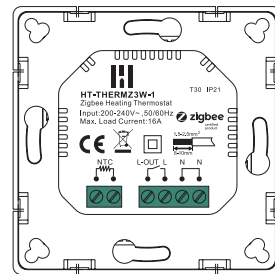
C.  
Frame



# Device overview

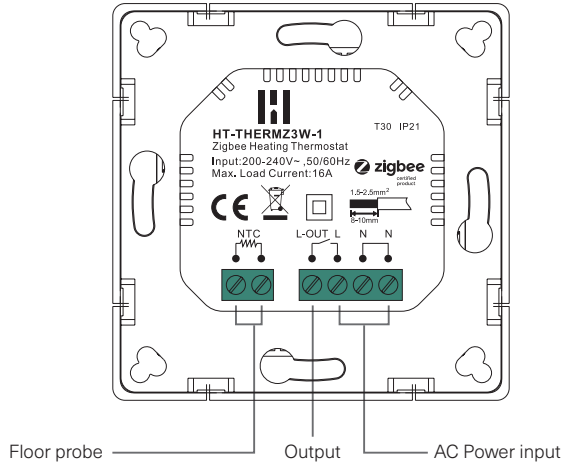


D. E. F. G.



- D. Power button (On/Off, Back, Cancel)
- E. Menu button (Toggle modes, Select, Confirm)
- F. Up button (Scroll up)
- G. Down button (Scroll down)

# Connection/wiring diagram overview



# Installation and wiring

## Electronical properties

- Load (A) 16 Max
- Voltage (V) 230
- Voltage type AC
- Power source AC

This device should be installed by a licensed electrician in a manner that conforms to local regulations and building codes.

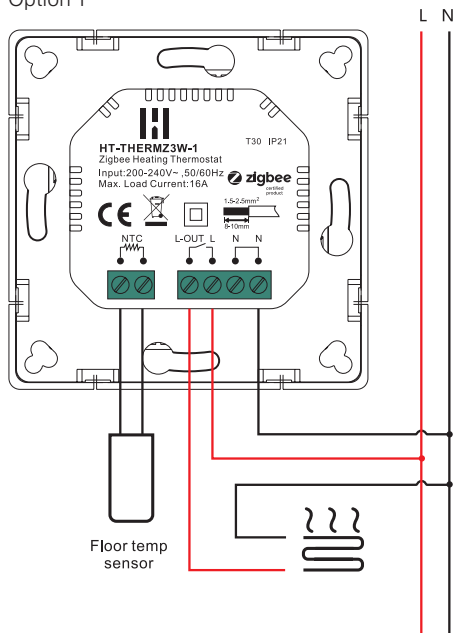
**WARNING:** Electrical power must be switched off during installation

1. Remove the display unit and backplate of the device from the packaging.
2. FIRST ENSURE THE POWER IS OFF at the main circuit breaker, and then test the wires with a probe or multimeter to verify.
3. Connect the input power and output/heater wires to the correct device terminals. Follow the connection diagram and instructions on the next page:

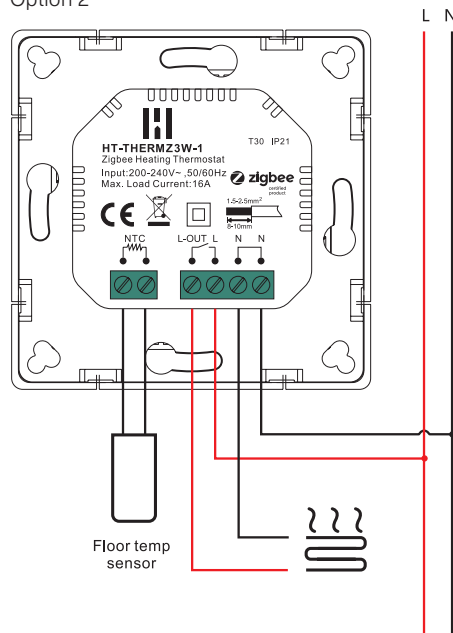
# Wiring diagram

For installation follow the wire diagrams.

Option 1



Option 2



# Get started

1. Power ON the device by switching the main circuit breaker back ON. The device will automatically go into inclusion mode when power on for first time (verify the inclusion mode time).

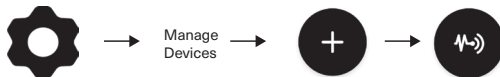


Activate inclusion mode manually

- Press and hold the **Menu button (D)**
- Go to **nE.0** and press the **Menu button (D)** to select
- Go to **nE.A** by one press on **Up button (F)**
- Start inclusion mode by pressing **Menu button (D)**
- **Ad** will be displayed, and Network symbol will flash



2. Open the Heimgard app and follow the steps listed here to connect to your device.



3. Your device will appear in the Found Devices List and the Network symbol on the thermostat display will become solid.
4. Press configure to add the device to a specific room. Add the device to the room that matches the placement of the thermostat.

# How to use

The thermostat offers 4 different modes.

Choose manual to operate the device form the smart home app.



**ECO mode** - preset of set temperature  
Default 17 degrees



**Auto mode\*** - select this mode to use the local programming and schedule on the device.  
Required configuration of P-19



**Away mode** - preset of set temperature  
Default 6 degrees



**App mode** - select this mode to operate the thermostat form the smart home app to add smart energy management automation and scheduled heating using the smart home hub. You can still adjust the set temperature locally on the device.

\*If you choose Auto mode, you will not be able to control the device from the smart home system

Press  to switch between the four different operating modes.

# Child lock

Enable / Disable

Press and hold all three buttons **ON/OFF (D)** + **UP (F)** + **DOWN (G)** at the same time for 5 seconds to enable or disable the child lock.







Press and hold 5 sec.



The lock symbol will be displayed when child lock is enabled.

# Local configuration

Press and hold  to access the menu. Use  or  to navigate through programs. Press  to confirm.

## P-01 Add or remove from Hub

Add your thermostat to the Hub

The thermostat will automatically be in pairing mode for 60 seconds first time you power up.

Use  or  to navigate


Select nE.A to activate pairing mode


Select nE.L to leave network

Press  to confirm

## P-02 Factory reset device

If you need to reset your device

Navigate to Sy.o and confirm by pressing 

Navigate to Sy.r to reset and confirm by pressing 

This will remove device from Zigbee network, delete all settings and restore to default settings.

## P-03 Display brightness

Adjust the Display brightness level

Use  or  to navigate

- Li.1 - 20% Low brightness
- Li.2 - 50% Medium brightness
- Li.3 - 100% Max brightness (default)

Press  to confirm

## P-04 Button volume setting

Adjust the button volume level

Use  or  to navigate

- bU.0 - OFF (default)
- bU.1 - Low volume
- bU.2 - Medium volume
- bU.3 - Max volume

Press  to confirm

## P-05 Floor sensor probe setting

Configure the floor sensor probe type

\*Note:  $\pm 1\%$  accuracy, B25/50=3950K $\pm 1\%$

Use  or  to navigate

- |           |                    |
|-----------|--------------------|
| 12 - NTC  | 12K/25°C           |
| 100 - NTC | 100K/25°C          |
| 50 - NTC  | 50K/25°C           |
| 15 - NTC  | 15K/25°C           |
| 10 - NTC  | 10K/25°C (default) |

Press  to confirm

## P-06 Sensor settings

Select the sensor type you want to use to control the thermostat

Use  or  to navigate



Select Co.r (ROOM) (default)

Select Co.F (FLOOR)

Press  to confirm

## P-07 Room temp settings

Room sensor calibration

Use  or  button to set the calibration adjustment

Available setting range is -3 to +3, unit is °C

Press  to confirm

Default value is 0°C

## P-08 Floor temp calibration

Floor sensor calibration

Press  or  button to set the calibration adjustment

Available setting range is -3 to +3, unit is °C

Press  to confirm

Default value is 0°C

## P-09 Anti-freeze settings

Freeze protection mode controls the thermostat to avoid low temperature issues, e.g. frozen pipes. The anti-freeze mode is executed under off status, and the reference temperature is taken from the room sensor.

Set the threshold temperature for the anti-freeze function to engage.

Choose **OFF** or a temperature between 5-10 °C

Use  or  to select

Press  to confirm

Default value is 5°C

## P-10 Unit display settings

Select the temperature unit (Celsius or Fahrenheit)

Use  or  to select

- Un.°C - Celsius (default)
- Un.°F - Fahrenheit

Press  to confirm

## P-11 Control sensor sensitivity

This function enables the controller to control the relay only when the sensor temperature is a little bit lower than



the set temperature. This value can be set with a 0.5° interval.

This prevents the controller switching the relay on/off when the temperature oscillates around the set sensor temperature.

Default value is 0.5°C.

Use  or  to set value

Press  to confirm

## P-12 Over current alarm

Configure the alarm or turning function on/off

Use  or  to navigate

- AL.y - Enable
- AL.n - Disable

Press  to confirm

If the load is above 16.4A, the display will show alarm “Warn” and “Cu”, the thermostat will sound and alarm, the relay will be forced to turn off, and the device will report an alarm every minute until the alarm is cancelled.

Reset the alarm by pressing and holding **ON/OFF** button for at least 5 seconds, or cancel it through the app.

Default value is Enabled.

## P-13 Button vibration settings

Adjust the Button vibration level

Use  or  to navigate


- Select vl.0 - OFF (default)
- Select vl.1 - Low
- Select vl.2 - Medium
- Select vl.3 - High

Press  to confirm

## P-14 Open window detection

Set the threshold value for “open-window” detection

Use  or  to select value between 1 - 10


To disable the open-window detection function select “0”  
If the room sensor temp. decreases more than the set value within 10 minutes, the  icon will flash slowly, and the device will be temporarily turned off. If anti-freeze mode is enabled the device will activate anti-freeze, if anti-freeze thresholds are crossed.

The “open-window” mode will be reset if the room sensor temperature increases by 2°C within 10 minutes, if the power of the device is reset, or if the operation mode is changed. The icon will then disappear and the device will indicate a return to normal operating mode.

## P-15 Time settings



Set time hh:mm

Use  or  to adjust time

Press  to confirm and switch between hh and mm

## P-16 Week settings

Press  to enter menu


Use  or  to set the day of the week

Press  to confirm

## P-17 External room temperature

Use  or  to select

- se.L - local sensor (default)
- se.r - remote sensor

Press  to confirm and save the setting.

Local sensor (se.L) refers to the ROOM or FLOOR sensor. The device will get the room's temperature from the room or floor temp sensor based on your configuration of P-06. If you choose the remote sensor (se.r), the device will get room temperature from the gateway (e.g a second device in your smart home system which reports temperature).

Use the remote sensor in the case where you have the thermostat installed outside the room you want to heat. (e.g. when the floor heating does not provide a floor sensor probe).

Fallback solution

If the remote sensor doesn't receive the room temperature from the gateway within 20 minutes, the thermostat will use a fallback solution = 1 MIN ON - 4 MIN OFF (Thermostat will be set to 20% ON - 80% OFF)

The fallback solution will be executed until a remote sensor reports room temperature.

## P-18 Home interface temperature display

Select which temperature to show on display. You can choose set temperature, room temperature or floor temperature.

Use  or  to select

- te.s - set temperature
- te.r - room temperature (default)
- te.f - floor temperature

Step 2: Press  to confirm and save the setting.

When the set temperature is modified manually, the display will show the set temperature for 10 seconds.


## P-19 Set local schedule temperatures



Select \*Auto mode when using local schedules.


A local schedule is only active when the thermostat is in Auto mode.


When using the thermostat without connecting it to a smart home hub, you can use the local schedule function to add 4 set temperatures per day. Program a morning, noon, afternoon and night temperature to optimize your heating schedule and energy use.


\*requires correct time and week configuration

Press  to enter menu

Toggle the item to control by using  or  to switch between hour, minute, heating set temperature.

Press  to enter item. The selected item will flash correspondingly. Repeat for each period per day, per day for the week.

Save the config by pressing 

or cancel without saving by pressing 

If the configuration parameter are incorrect a warning will be displayed:



Morning



Noon



Afternoon



Night

## Need help?

Website:	<a href="https://heimgard.com/support">heimgard.com/support</a>
Email:	<a href="mailto:support@heimgard.com">support@heimgard.com</a>
Facebook:	<a href="https://facebook.com/heimgardnorge/">facebook.com/heimgardnorge/</a>
Telephone:	+47 649 44 422

Visit [heimgard.com](https://heimgard.com) for more information and tips on how to use.

## Important safety information


1. Read through these instructions and follow accordingly.
2. Clean only with dry soft cloth. Household cleaners and solvents can damage the finish on your device.
3. Do not install too close to any heat sources such as radiators, heat registers, stoves or other device that produce heat.
4. Do not use this device near water.
5. Warning: To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
6. Do not expose device to dripping or splashing.
7. Protect the attached cables from being walked on or pinched, particularly at plugs, convenience receptacles, and the point the exit the apparatus.
8. Only use attachments/accessories specified by the manufacturer.
9. All servicing should be performed by qualified service personnel. Servicing is required when the device has been damaged in any way.
10. Operating temperature: -10°C to +50°C
11. Operating relative humidity: < 95% RH (no condensation)



Dispose the product properly at the end of life. This is electronic waste which should be recycled accordingly.



Heimgard

 [heimgard.com](https://heimgard.com)