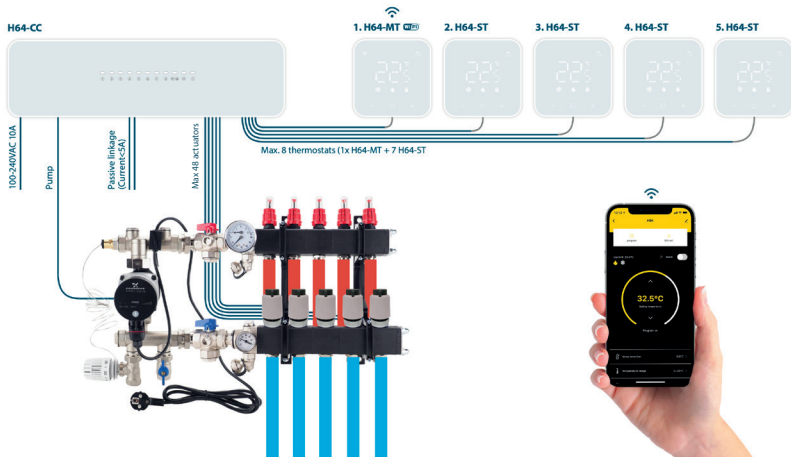


H64⁽²⁾

INSTALLATION INSTRUCTIONS & USER MANUAL





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Introduction

To ensure that your product works optimally, there are a few points to consider, which are described in these installation instructions. We can only provide a full warranty if the product is installed correctly. Please read these instructions carefully before installation and ensure you have the correct tools and materials.

The H64 is a wired control system with WiFi functionality for water-based underfloor heating systems. The stylish H64-MT thermostat with WiFi functionality is a programmable thermostat designed to control water-based underfloor heating systems. An app is available in the Apple App Store and on Google Play. You can programme and adjust settings within the app. To control different rooms (groups), additional H64-ST (slave) thermostats can easily be added.

Key features:

- Up to 8 thermostats (1 master, 7 slave)
- Up to 48 groups/actuators (230VA) / max. 4 actuators per port (1-4 double and 5-8 single)
- Function for heating and cooling
- 2-wire power supply and communication between control unit and thermostats
- WiFi-controlled
- Compatible with Tuya Smart home systems
- App for iOS and Android
- Works with Amazon Alexa and Google Assistant
- Simple installation
- Minimalist design

Assembly & installation H64-CC Control unit

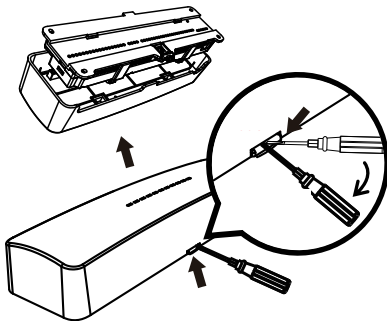
1. Determine location

Determine the position of the control unit near the distributor and a grounded power point (100-240VAC/10A).

You must have the electrical installation carried out by a certified installer in accordance with local standards.

2. Opening the control unit

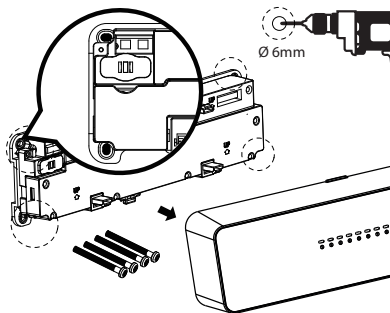
Remove the back plate by inserting a small screwdriver into the slot at the bottom. Use a lever motion to loosen it.



Assembly & installation H64-CC Control unit

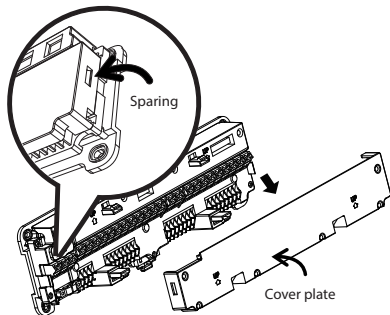
3. mounting

Use the back plate to mark the position of the drill holes. Drill the holes with a 6 mm drill bit, insert the plugs and secure the back plate with the screws provided.



4. Removing the cover plate

Press the recesses on the side to remove the cover plate. After connecting the cables, secure the cover plate and replace the front casing.



Assembly & installation H64-CC Control unit

5. Connection diagram

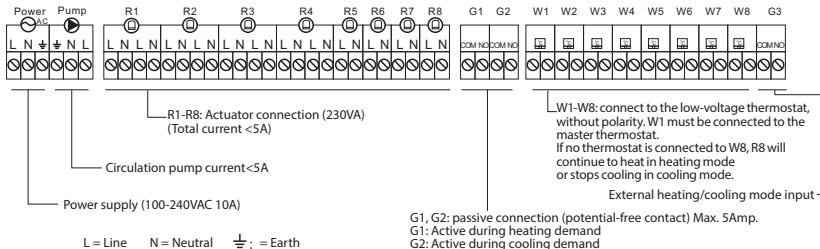
Connection of thermostats W1-W8: Connection of thermostats (master thermostat always on W1).

Connection of actuators (230VA) R1-R8: R1 = W1, R2 = W2 etc....

Groups R1-R4: These are duplicated and can connect to 8 actuators (4 per input). Groups R5-R8: Maximum of 4 actuators per input.

Total: R1-R4 (4x8) and R5-R8 (4x4) = 48 actuators.

PLEASE NOTE: The total current must never exceed 5 amps.

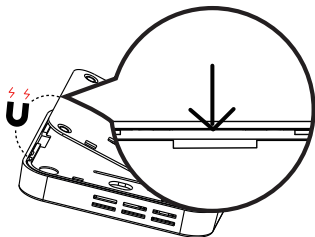


Installation of the thermostat

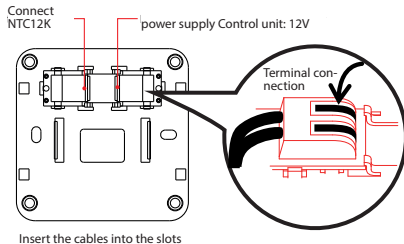
To guarantee the quality of the internet connection, the master thermostat must be installed in a room with good WiFi reception.

Please note that you must distinguish between the master thermostat and the slave thermostat. The master thermostat is supplied with the control unit and is called H64-MT WiFi.

1. Pull the back plate to open the thermostat (magnetic).

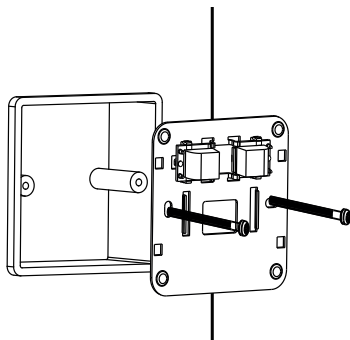


2. Wiring (Recommended 0.75–1.5 mm)

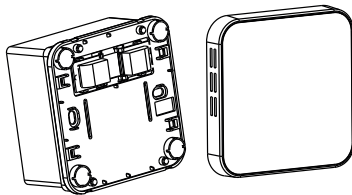


Installation of the thermostat

3. Secure the back plate with screws.



4. Position the thermostat



System test

Once everything is connected, check that the master thermostat is connected correctly, then check the slave thermostats one by one.

Display off?

There is no power supply. Check that the wiring between the thermostat and the control unit is correctly connected.

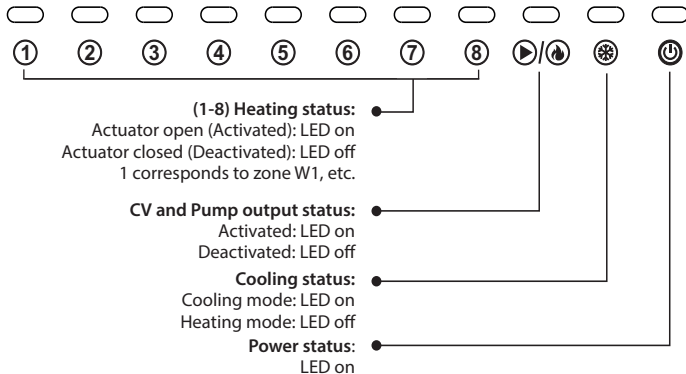
Display shows "FX"

The master and slave thermostats have been swapped. Find the thermostat marked 'FX' in other rooms and move it to connection W1 (X stands for numbers 2-8).

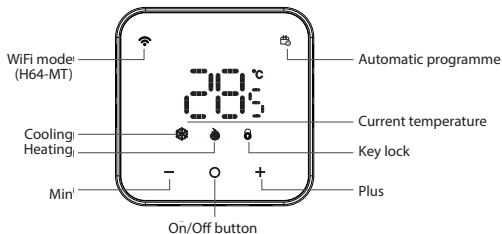
If, during installation, you find that the thermostat connection does not correspond to the correct room, briefly press the + and - buttons on the thermostat when switching it on to identify the connection ("02" corresponds to "W2", etc....) You can then easily change the thermostat connection in the control unit to the correct position if desired.

Explanation of symbols

Status indication:



Explanation of symbols



+ - Set temperature higher or lower

Briefly press **O** to wake the thermostat from sleep mode.

Switching off Master: Press and **hold O** for 5 seconds until OFF flashes, release, and after 5 seconds the thermostat will switch off.

Switching off the slave unit: **Press** and hold **O** for 5 seconds to switch off immediately.

Key lock: Activate/Deactivate : Press and hold "+" and "-" for 5 seconds (padlock icon on/off)

Select mode (Master only):

Press and hold until OFF flashes. Within 3 seconds, press "+" or "-" to select cooling (❄️), heating (🔥) , or Auto (🔄) . Press **O** again to confirm

Explanation of symbols

Manual or automatic programme:

To switch between the two modes, briefly press "O" while the device is switched on. The symbol lights up when the automatic programme is selected and is off when manual mode is selected.

Cooling symbol:

Blue light: System is cooling down.

White light: Room is at the correct temperature.
Press the "+" or "-" button to change the temperature.

Heating symbol:

Red light: System is heating.

White light: Room is at temperature.
Press the "+" or "-" button to change the temperature.

Car mode symbol:

Cooling and heating symbol on.

Heat demand: heating symbol red

Cooling demand: Cooling symbol blue

WiFi mode:

Press "+" and "O" simultaneously for 5 seconds.

WiFi symbol flashes: Ready to connect.

WiFi symbol On: Connection successful.

Frost protection:

The thermostat switches on when the temperature is below 5°C and switches off when it reaches 8°C. It is only activated in heating mode.

Pump/Actuator protection:

Pumps and actuators are switched on for 5 minutes every week to prevent them from seizing up.

Error codes:

Code	Meaning
E1	Room sensor defective
E2	Floor sensor defective
E3	Communication error between control unit and thermostat

Advanced settings

To activate the advanced menu: Switch off the thermostat (press and hold "O" for 5 seconds).

1. Press and hold the "+" and "-" buttons for 3 seconds (the display will show "1-14").
2. Press "+" or "-" to select an option (1-14).
3. Briefly press "O" to select and then "+" or "-" to adjust the parameter.
4. Briefly press "O" to exit the option (follow from point 2 again to adjust other options).
5. Save: Press and hold "O" to save all settings and switch the device off again.

Option	Function	Parameters	Standard
01	Temperature calibration	-6°C ~ +6°C	0°C
02	Maximum temperature setting	25-50°C	35°C
03	Minimum temperature setting	5-20°C	15°C
04	Screen lighting	1: Always on / 2: On for 10 seconds, then dimmed by 50% / 3: On for 10 seconds, then display off and "O" dimmed by 50%.	2
05	Pump/Actuator protection	On/Off	To
06	Allow key lock	On/Off	To
07	Sensor selection	S-r / r-F / S-F (See page 15)	S-r
08	Maximum floor temperature	5-70°C	40°C
09	Frost protection	On/Off	To
10	Pump delay (Master only)	0-3: 1, 2 or 3 minutes delay for pump and boiler. 0: No delay for pump and boiler.	3
10	Allow cooling (Slave only)	00 Allow cooling / 01 Cooling off	00
11	Thermostat control mode	00 External cooling/heating mode input / 01 Thermostat control cooling/heating	00
12	Auto mode switchover temperature	3-5°C	30°C
13	Set temperature automatically	15-25°C	22°C
14	On/off differential	0.3-0.5°C	0.3°C

Factory settings: Press and hold "+" and "-" simultaneously; "SP" should flash three times.

Standard programming (can be adjusted in the app)

Cooling mode

					
Morning	Leaving home	Back home	Leaving home	Back home	Night
6:00 25°C	8:00 28°C	11:00 25°C	14:00 28°C	18:00 25°C	22:00 28°C

Heating mode

					
Morning	Leaving home	Back home	Leaving home	Back home	Night
6:00 20°C	8:00 16°C	11:00 20°C	14:00 16°C	18:00 20°C	22:00 16°C

Sensor selection:

S-r: Control via room sensor

The thermostat is controlled by an internal sensor and is displayed as room temperature.

r-F: Control via room sensor with floor sensor limit

The thermostat regulates based on the actual room temperature detected by the internal sensor and compares it with the floor temperature limit set by parameter 8. If the floor temperature exceeds the limit, the system stops heating. If the floor sensor is not connected in r-F mode, it will trigger alarm E2.

S-F: Control via floor sensor

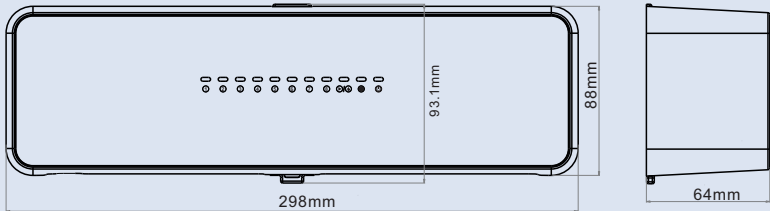
When using Auto mode, we do not recommend setting the sensor to floor sensor.

The thermostat regulates via an external sensor and displays the room temperature.

Technical data: H64-CC Control unit

Wiring H64-CC control unit

- Power supply: 100-240VAC 50/60Hz (Maximum current 10A)
- Storage temperature and humidity: -10 to 60°C, 0 to 90% RH (non-condensing)
- Working environment temperature and humidity: 0 ~ 50°C, 0 ~ 80% RH (non-condensing)
- Colour: White
- Dimensions: 298 x 88 x 64 mm
- IP rating: IP 40

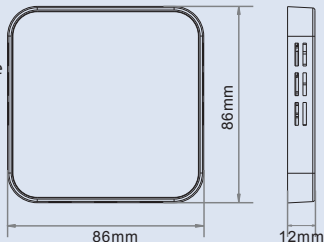


Technical details: H64-MT WiFi (Master) and H64-ST (Slave)

- Power supply and signal input: DC12 ~ 18V (no polarity).
- Max. current supply to thermostat: 100mA
- Storage temperature and humidity: -10 to 60°C, 0 to 90% RH (no condensation)
- Ambient temperature and humidity: 0 ~ 50°C, 0 ~ 80% RH (non-condensing)
- Temperature display range: 0 ~ 50°C (32 ~ 122°F)
- Display accuracy: 0.1°C
- Colour: White
- Dimensions: 86 x 86 x 12 mm
- Protection level: IP21

H64-MT:

- WiFi channel: 2.4GHz
- WiFi transmission distance: 60 metres in an open space



Install and register the app

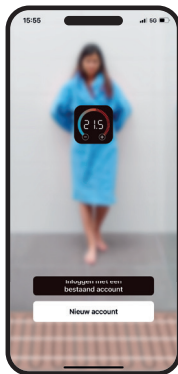
Search for the **HeatLink** app in the App Store **or** scan the QR code below:



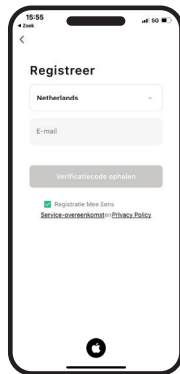
PS: You may also utilise this system on another already registered Tuya App.

PLEASE NOTE: This system only operates on a **2.4 GHz** frequency. If your modem is set to 5 GHz, you must first create an additional 2.4 GHz channel.

After installation, log in with an existing account or create a new account.

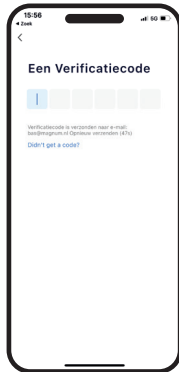


Select your country and enter your email address. Then click on **"Get verification code"**.

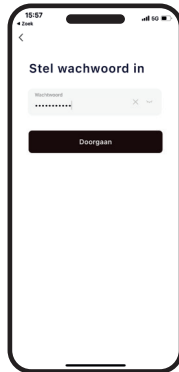


Install and register the app

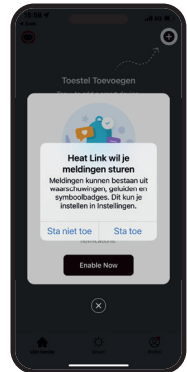
Check your e-mail (including spam) and then enter the code.



You can then set a password.

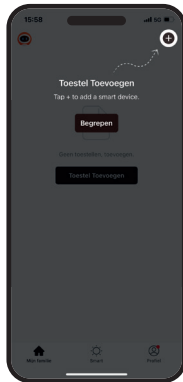


For the system to function properly: Allow "location data" and enable "Notifications".



Add thermostat

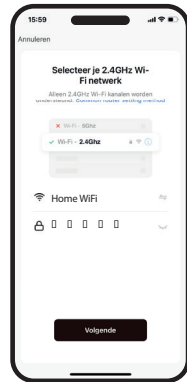
Ensure that all thermostats are connected. Press "+" to add a thermostat.



Click on the icon for the "H64" thermostat or "WiFi Thermostat".



Enter your WiFi network and password and press "Next".

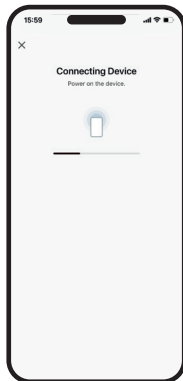


Add thermostat

Press O and + for 5 sec. WiFi symbol on the thermostat Flashing rapidly? (Page 13) Tick "yes" and press "next".



Wait until the Hub has established a connection. This may take up to 2 minutes.

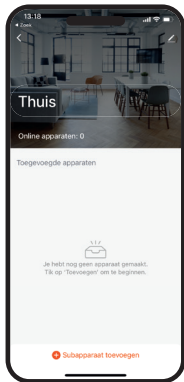


Once it has been added, you can enter a different name for the system (e.g. Home)



Add thermostat

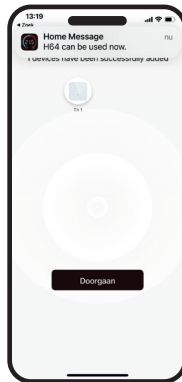
Press
"Add sub-device".



Press
"LED is already flashing."

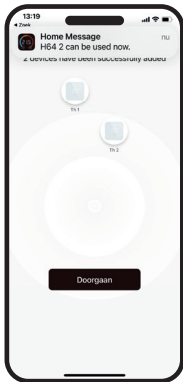


Wait until all thermostats have
been found.

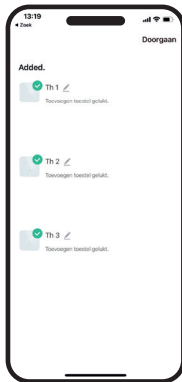


Add thermostat

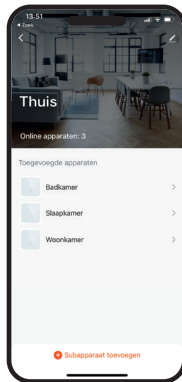
Once all thermostats have been found, press "Continue".



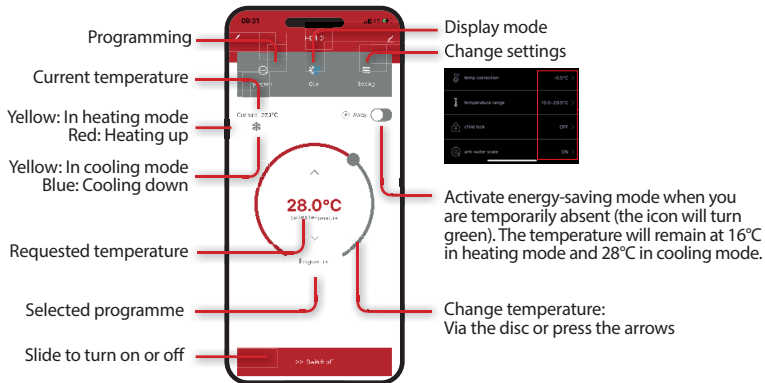
Have all thermostats been added? Change the names if necessary and press "Continue".



The Home screen now displays all thermostats/rooms in a single overview.



Explanation of symbols App

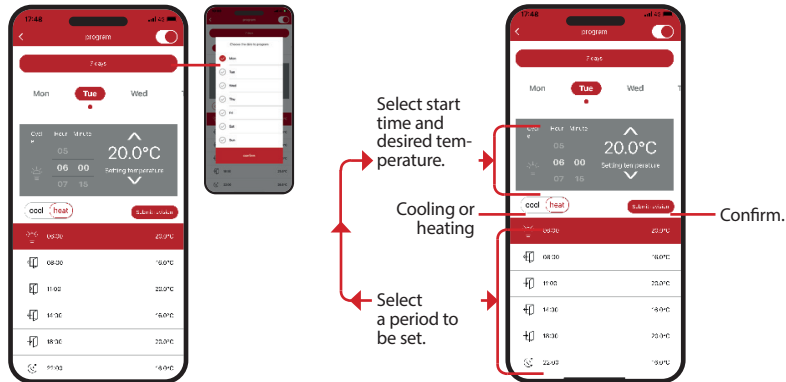


Programming

Press "7 days" and select the days on which you wish to set the same programme.

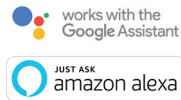
Then, first select a switching moment and set its start time and temperature.

Repeat this until all switching times have been entered and press "Submit revision".



Voice assistants:

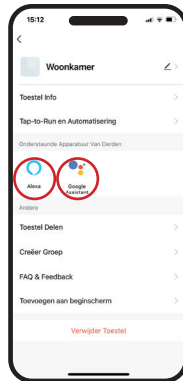
This system also works with Amazon and Google voice assistants.



To activate: Press the pencil icon in the top right corner of the screen.



Select the relevant system and follow the instructions in the app.



Voice assistants:

When you switch on the loudspeaker, you can perform the following actions: You can change the <device name> yourself. The temperature measurement unit of the thermostat and the loudspeaker must be the same.

Amazon Alexa

- Alexa, open <device name>.
- Alexa, close <device name>
- Alexa, set <device name> to 16 degrees.
- Alexa, what is the temperature of <device name>?

Google Assistant

- Okay, Google, turn on <device name>.
- Okay, Google, turn off <device name>.
- Okay, Google, set <device name> to 16 degrees.
- OK, Google, what is the temperature of <name of device>?

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