



## User manual



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# Introduction

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Thank you for purchasing the Comfort.me thermostat from Ecodhome.

The Comfort.me Chronothermostat allows precise control of temperature in the house, and through Wi-Fi connectivity can be remotely operated from a Smartphone, via a dedicated APP. The main component is the Comfort.me Chronothermostat which can be programmed directly with the APP, setting up hourly and daily temperature schedules. It measures the zone temperature and sends on / off commands to the receiver unit controlling the boiler.


There are three versions of the Comfort.me thermostat: two wall-mounted models (5000, without OpenTherm protocol, and 5100, with OpenTherm protocol) and a separately powered free-standing model which can be placed in an appropriate location to sense temperature (5010, with OpenTherm protocol).

The control unit is installed under the boiler.

## General safety

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Before using this equipment, precautions should be taken to reduce any risk of fire and / or personal injury:

1. Read all instructions and follow all precautions in this manual.
2. Pay attention to all possible hazards identified on the device or in this manual marked with the symbol .
3. Disconnect the device before cleaning. For cleaning do not use cleaning agents but only a damp cloth.

4. Do not use the device in gas-filled environments.
5. Do not place the device near heat sources.
6. Only use original accessories provided by Ecodhome Smartdhome.
7. Do not place the connecting cables and / or power under heavy objects, avoid laying cables near sharp or abrasive objects, or areas where people walk.
8. Keep out of reach of children.
9. Do not perform any maintenance on the device but always contact the service network.
10. Contact the support network if one or more of the following conditions occurs on the product and / or an accessory (included or optional):
  - a. If the product has come into contact with water or liquid substances.
  - b. If the product has suffered obvious damage to the casing.
  - c. If the product does not perform in accordance with its

features.

- d. If the product has undergone a noticeable performance degradation.
- e. If the power cord is damaged.

**⚠ In any of these situations, do not attempt to perform repairs or adjustments not described in this manual. Improper working could damage the product and lead to additional work to restore function.**

**Arrangement for Waste Electrical and Electronic Equipment. (Applicable in the European Union and other European countries with separate collection systems).**



This symbol on the product or its packaging indicates that this product should not be treated as a common household waste. All products marked with this symbol must be disposed of through appropriate collection sites. Improper disposal could have negative consequences for the environment and for the safety of human

health. The recycling of materials will help to conserve natural resources. For more information contact the Council Office in your area, your waste disposal service or the center where you purchased the product.

### **Disclaimer**

We can not guarantee that the information concerning the technical characteristics or those contained in this document is correct. The product and its accessories described in this document are subject to constant improvement and development. For this reason, we reserve the right to modify components, accessories, technical specifications and related documentation of the product described in this document without notice.

### **Intended use**

This device has been designed to be used with heating systems (boilers, electro valves, thermal actuators, heaters, etc.), in

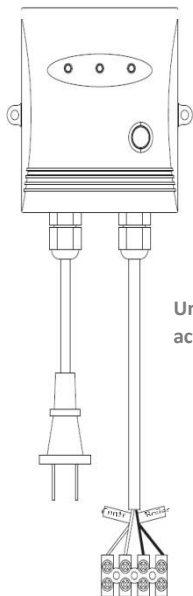


residential, commercial and industrial properties. Any other use unauthorized or not described in this manual is not permitted and is considered incorrect use.

## Package contents

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- 1 Comfort.me thermostat
- 1 unit for boiler activation
- 1 Wall mounting for device (for wall model only)
- 1 fixing kit
- 1 User Manual
- 1 power supply unit (for wireless model only)



**Unit for boiler  
activation (wall model)**



**Comfort.me thermostat**



**Unit for boiler  
activation  
(wireless model)**

# Compatibility

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Comfort.me is compatible with most heating systems, including:

- ❓ Traditional gas and oil boilers.
- ❓ Condensing boilers.
- ❓ Underfloor heating.


# Pairing timer thermostat/control unit

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△ The instructions below apply to the free-standing version of Comfort.me, not the wall-mounted version.

Hold down the LED button on the wireless controller, until the green light is on and the red flashes regularly.

Then hold down the MODE button on the thermostat, the display "---" appears on the thermostat indicating the wireless communication channel is being established (the default channel is 10).

The wireless transmission icon  present on the thermostat will change from flashing to continuously lit, this means that the coupling was successful.

# Setting up

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## **Step 1: Download the APP on your smartphone or tablet**

Download directly from the APP store using your smartphone. The APP is available for Android devices (> Version 2.3) or iOS (> Version 7.0).


## **Step 2: Configure Wi-Fi network**

There are two ways to connect to the Comfort.me Wi-Fi network:

① WPS: click on the WPS button on the router, then double click on the "SET" button on the transmitter (only for wireless model).

② Use the APP on the mobile device for configuration:

Verify that the mobile device is properly connected to the Wi-Fi network. For the first configuration, the mobile phone must be connected to the same router as the one to be used for the Comfort.me device. Once the first connection has been established, it will be possible to use the 3G / 4G network to remotely control the thermostat by means of the APP.

1. Click  at the top right on the APP screen. (For some Android devices, after clicking the icon at top right, then click the virtual menu on the left of the device's home button to configure the Wi-Fi).
2. Click "Configure Wi-Fi" access in Wi-Fi settings and enter your Password.

⚠ Do not click on "Connect" at this stage!



3. Connect power to the Comfort.me thermostat (with 230 VAC for the wall-mounted version, or with external power supply for

free-stand model), press the SET button on the right side of the thermostat for 5 seconds and then release, when the Wi-Fi indicator light will flash.

4. Click on "Connect" on the APP, 10-20 seconds later, the LED Wi-Fi indicator will become steady, indicating that the connection has been established.
5. If the connection is not established correctly, please follow these steps:
  - a. Check Wi-Fi is enabled on your mobile device.
  - b. Check the router, restart your mobile device and repeat the steps.
  - c. If the problem persists please contact our customer service.

**⚠** In the case of the thermostat being re-started (eg. following electrical failure) the temperature shown on the screen will be restored to the correct level within 15 minutes.



### Step 3: Create an account

Verify that the mobile device is properly connected to Wi-Fi.

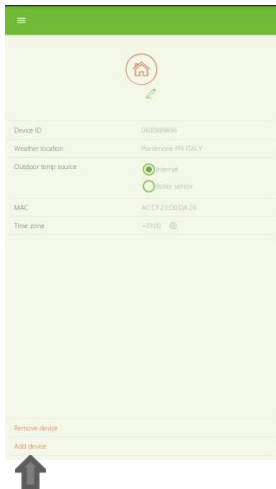
1. Launch the Comfort.me APP and click "Join."
2. Create an account. The ID code can be found on the box and on the back of the thermostat.
3. Enter the required data.
4. Then login.

A screenshot of a mobile application registration form. The form has a green header with a back arrow. It contains six input fields: Username, Password, Confirm password, Email, Phone number, and City. Each of the first four fields has a small icon to its left and a '\*required' label to its right. Below the City field is a small line of text: "Click on the register button below, it indicates that you agree to our terms software license and service agreement". At the bottom of the form is a red button with the word "REGISTER" in white capital letters.

## Step 4: Add other thermostats to the same APP

It is advisable to always check that each thermostat has been properly connected to the Wi-Fi network before proceeding with the following operations.

1. Enter your user name and password to login and access.
2. To add the various thermostats follow the screenshots below:

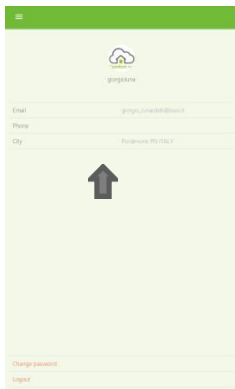




**Note:** To select the desired thermostat, from the main screen (Home), you need to click "back" to return to the Device List screen.

## Step 5: Settings

To show on the APP the weather information for the location where Comfort.me has been installed, enter the location where indicated.



The screen will then show:



- ① Location and external temperature.
- ② Current room temperature.
- ③ Set room temperature (to be achieved).
- ④ Heating state (on/off)



### **Manual mode**

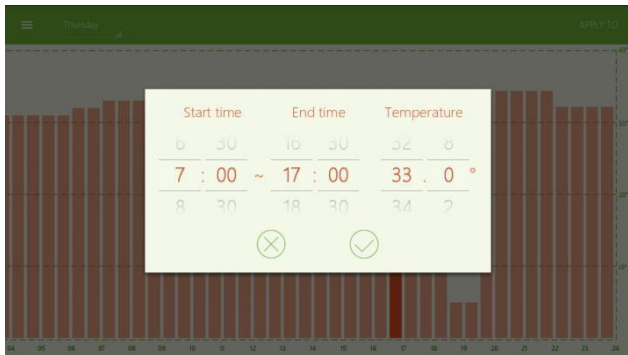
Press Manual Mode. Click on the wheel next to the set temperature, adjust the desired temperature and press confirm.



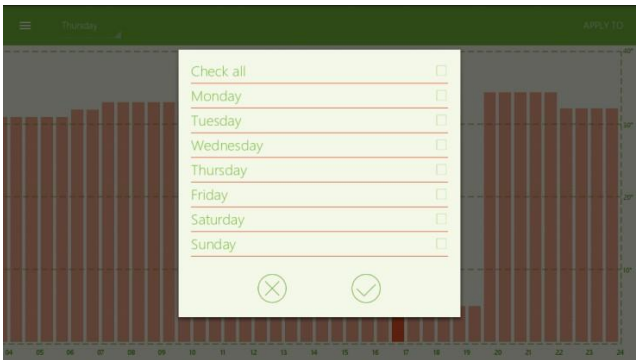
## Program

Click the Program Icon, then click on the area of the screen showing the temperature bars to bring up the programming interface:





Set the temperature and desired times, and confirm. Now click the screen again to set another time for the same day, and continue to complete the 24 hour cycle. If the setting is to be scheduled for several days, then select "Apply to" in the upper right corner, then select the days for which the setting has to be repeated.



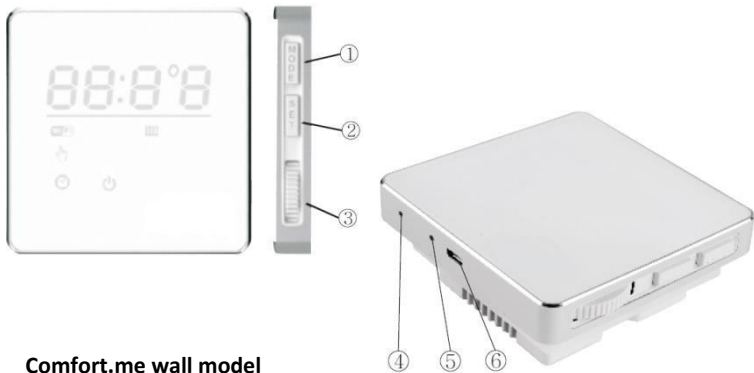
If you need to override the programmed schedule, then click "Manual Mode" and set the temperature as desired. To return to the original programming, simply click again on "Program."

## **Frost Protection mode**

When this mode is activated, the Comfort.me thermostat activates the heating only when the ambient temperature falls below 5 ° C so as to avoid damage due to freezing.

# Room thermostat

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**Comfort.me wall model**



## Comfort.me wireless model

- ① **MODE:** Press to select Manual mode, Program mode, or press for at least 5 seconds to activate the anti-freeze mode.
- ② **SET:** press SET button to display the current schedule and the room temperature; hold the SET button for 5 seconds to connect the thermostat to the Wi-Fi network.
- ③ **WHEEL:** is used to change the temperature, this function is only active when using the Manual mode.
- ④ **AMBIENT TEMPERATURE SENSOR:** it detects the ambient temperature in which the thermostat is placed.
- ⑤ **RESET BUTTON:** the thermostat can be reset to resolve an issue. The screen will reboot immediately after pressing the reset button.
- ⑥ and ⑦ **USB PORT MICRO:** powering the thermostat (in the case of Comfort.me free-standing model) or to carry out thermostat system updates (for Comfort.me wall model).

As soon as the thermostat is connected (with 230 Vac for wall or with external power supply for free-standing thermostat model), with all the LEDs lit, immediately press MODE twice and press SET twice to see the factory settings.

The factory default settings are:

- ON Hysteresis: 0.4 ° C (the boiler ignites 0.4 ° C prior to the set temperature).
- OFF Hysteresis: 0.2 ° (the boiler is turned off 0.2 ° C after the set temperature).
- Frost Protection temperature: 5 ° C.

## LED display information



Immediately after powering the thermostat, all LEDs will be illuminated.

① Ambient Temperature

② Status of Wi-Fi



Flashing	Attempting to establish a connection to the server
Fixed	Connection to the server established
LED off	Failed to connect to server

- ③ Manual mode: the thermostat overrides the programmed temperature to allow a manually-set temperature.
- ④ Program: When set to Program, the thermostat runs the program defined via the APP.
- ⑤ Frost Protection mode: When set to OFF, Comfort.me heats the property only when the temperature drops below 5 ° C to prevent frost damage.
- ⑥ Status of Heating:

ON	Heating ON
OFF	Heating OFF

⑧ Temperature calibration:

Fig.1 – A lower case "c" appears as soon as you power-up.



Fig. 2 – A capital "C" appears after 50 minutes of operation, indicating calibration completed.





Fig. 3 – Calibration completed



When the Comfort.me thermostat shows a lower case "c" (see Fig.1), it is displaying the current temperature of the environment in which the thermostat is placed. After 40-50 minutes, you will see a capital "C" (see Figure 2 and Figure 3).

To calibrate the temperature, press MODE and SET simultaneously, the LED display will only show the temperature: rotate the wheel side to set the desired temperature.

## Description additional features

Symbol	Description
 The image shows a square LCD display with a white background and a black border. The text "H On" is displayed in a black, monospaced font. At the bottom right of the display, there is a small, faint logo that appears to be a stylized house or a similar symbol.	<p>Press the SET button and scroll down with the selector wheel to change the value of "Hysteresis ON" (values from 0 ° ~ 2 ° C, increase by 0.1 ° C). For example, if the desired temperature is set at 25 ° and HON (the ON hysteresis) is 0.5 °, when the thermostat detects a temperature of 24.5 ° it sends the boiler ignition signal.</p>
 The image shows a square LCD display with a white background and a black border. The text "HOFF" is displayed in a black, monospaced font. At the bottom right of the display, there is a small, faint logo that appears to be a stylized house or a similar symbol.	<p>Press the SET button and scroll down with the selector wheel to change the value of "hysteresis OFF" (values from 0 ° ~ 2 ° C, increase by 0.1 ° C). For example, if the desired temperature is set at 25 ° and HOFF (hysteresis OFF) is 0.5 °, when the thermostat detects a temperature of 25.5 ° it sends the boiler shutdown signal.</p>

# Unit for boiler activation


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## Control unit for wall mounting



Once it is powered all the LEDs on the unit flash once.

## LED control of the wall-mounted controller with On/Off functions:

LED	Function	
Red	ON	Power connected
	OFF	Power disconnected
Green	Always ON	Relay closed and active heating
	OFF	Relay open and heating off
Orange	OFF	Normal operation
	Blinking	Lost communication with the room thermostat
	Click this button ONLY when the orange LED flashes (communication between thermostat and control unit lost) - valid only for the wall-mounted version	

## LED control of the wall-mounted controller with active OT protocol:

Light colors	Functionality	
Red	ON	Power supply on
	OFF	Power supply off
Green	Constantly ON	Relay is closed, heating request is on
	OFF	Relay is open, heating is off
Orange	Constantly ON	Heating request is on
	Blinks 1 time per second	Lost communication with the room thermostat
	Blinks 2 times per second	Lost communication with boiler
	OFF	Disconnected with boiler or boiler control is defective

## Wall model installation

Important: Please read this part before installation. Disconnect the power to the heating system. It is advisable to consult a qualified technician.

The thermostat should be placed:

- ❓ Fixed to a back-box at an approximate height of 1.5m from the floor.
- ❓ Away from any source of heat such as radiators or electronic devices, and away from draughts from doors and windows.
- ❓ Away from direct sunlight.

Position the fixing plate to the back-box using the screws supplied (Fig.4).



⚠ Before deciding the positioning of the programmable thermostat, remember that the power cables of the programmable thermostat must be connected to the control unit.

⚠ If you already have a programmable thermostat onsite, use may be made of existing boiler activation cables, which must be connected to the control unit (see the related diagram).

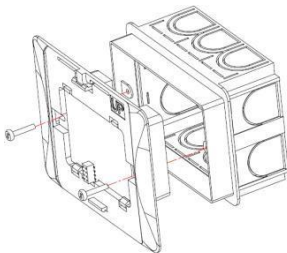


Fig.4 – Connecting mounting plate to back-box.

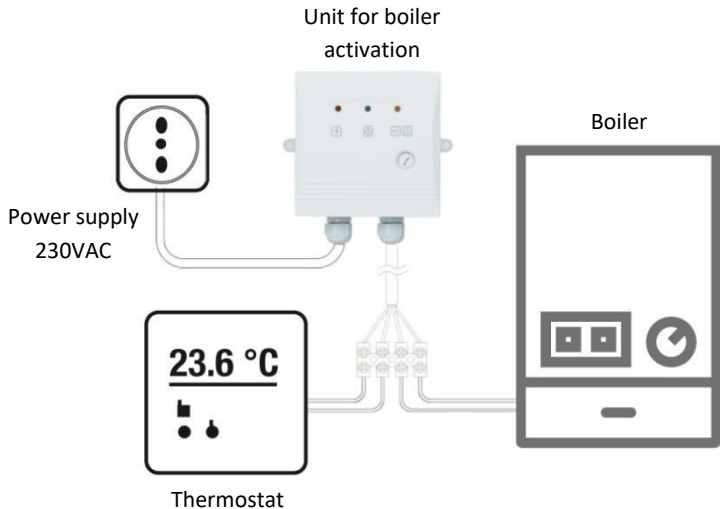


Fig.5 – Connection diagram of the control unit for boiler activation.

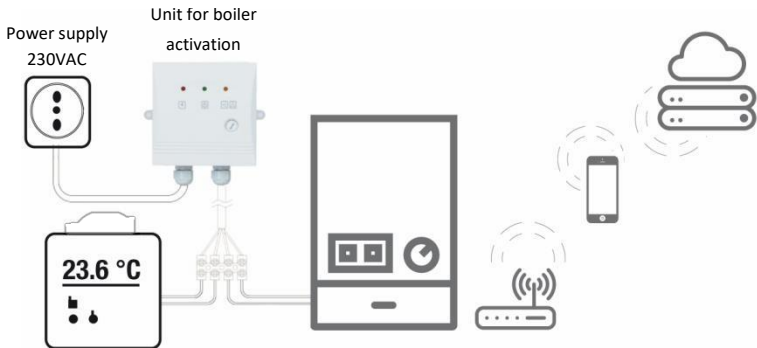


Fig.6 - Schematic for wall-mounted Comfort.me thermostat.

## Controller for wireless model

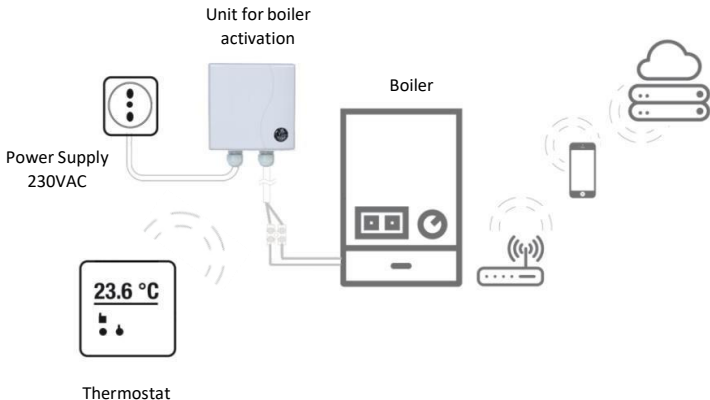
The following information relates to the installation of the wireless controller to either a boiler which supports OT protocol, or simply one with ON / OFF function.



<b>Red LED</b>	<b>Green LED</b>	<b>Indication</b>
Off	Blinks regularly	Flame ok. Wireless communication ok.
Blinks regularly	Off	No flame. Wireless communication ok.
Off	On	Flame ok. Wireless communication ok.
On	Off	No flame. Wireless communication ok.
On	Blinks regularly	Open relay. Wireless communication ok.
Blinks regularly	On	Open relay. Wireless communication ok.
Off	Blinks irregularly	Closed relay. Anomalous wireless communication.
Blinks irregularly	Off	Open relay. Anomalous wireless communication.

## Installation and schematic for wireless model

Connect the ON/OFF wire pair to the boiler if it does not support the OT protocol; use the OT cables if boiler does support this protocol.



Use the pre-configured cables of the control unit for its connection to the boiler. In detail:

1. Use the cables labeled as OT for connection to a boiler that includes this type of protocol or the ON/OFF cables for a boiler that is not OT equipped (Fig.7). Use a screwdriver to connect the respective cables.
2. Use the accessories included in the fixing kit, using the one that best suits the wall type.

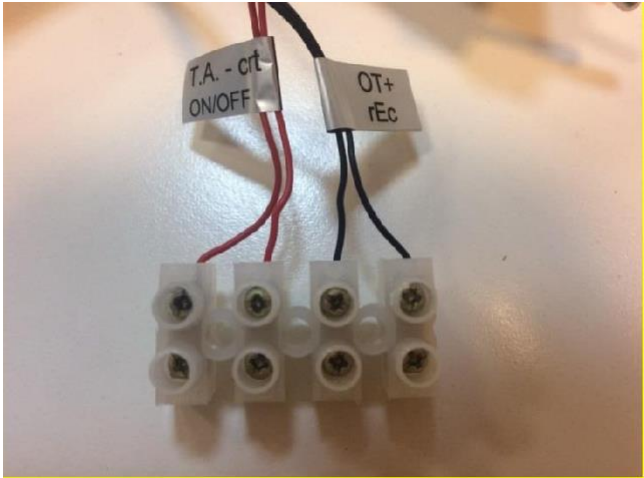
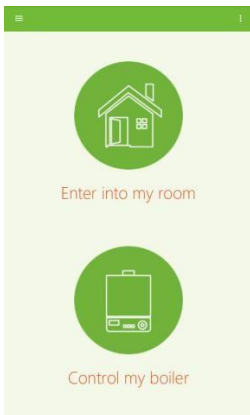


Fig.7 - Layout of cables on the wireless controller.



## Controller with OpenTherm protocol


If the boiler is compatible with the OpenTherm protocol, following its connection, the following screen will appear on the APP:



By selecting "Check My Boiler" you will be able to check all of your data and its functions in detail:

1. Flow temperature - the return water temperature in the heating system.
2. Boiler water pressure - the water pressure inside the boiler.
3. Desired heating temperature.
4. Desired domestic hot water temperature.
5. Flame State.
6. Error (Defined by the boiler manufacturer).
7. Heating function status.



For more details, and a more complete view, you can access through the menu  in the section dedicated to all the boiler information and modify some parameters, such as the maximum heating temperature you want.



## LED control of the wireless controller with active OT protocol:

Red LED	Green LED	Functionality
OFF	Blinks regularly	Flame and OT ok. Wireless communication ok.
Blinks regularly	OFF	No flame; OT ok. Wireless communication ok.
OFF	ON	Flame ok; OT ok. Wireless communication ok.
ON	OFF	No flame; OT ok. Wireless communication ok.
ON	Blinks regularly	Open relay; anomalous OT. Wireless communication ok.

Blinks regularly	ON	Open relay; anomalous OT. Wireless communication ok.
Blinks regularly	Blinks regularly	OT ok. Anomalous wireless communication.
Blinks regularly	ON	OT ok. Anomalous wireless communication.
ON	Blinks regularly	OT ok. Anomalous wireless communication.
OFF	Blinks regularly	Closed relay, anomalous OT. Anomalous wireless communication.
Blinks regularly	OFF	Open relay, anomalous OT. Anomalous wireless communication.

# Technical specification

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Specification		Wall model	Wireless model
Basic specification	Power supply	220V – 50Hz	220V - 50Hz
	Power consumption	1.2W	1.2W
	Load relay	0.25A-230VAC	0.25A-230VAC
	Thermostat dimensions	86x86x35 mm	86x86x35 mm
	Receiver dimensions	86x86x33 mm	86x86x20 mm
	Thermostat material	ABS + Aluminum	ABS + PC + Aluminum
	Temperature detector	Internal	Internal
	Settable temperature value	0 °C ~ 35 °C	0 °C ~ 35 °C
	Colour	White	White

	Thermostat	Wall model	Wireless model
Wi-Fi	Wi-Fi Standard	802.11 b/g/n	802.11 b/g/n
	Frequency	2.412 Ghz – 2.484 GHz	2.412 Ghz – 2.484 GHz
	Wireless frequency	-	868 MHz
	Wireless transmission range	-	30 m in open field
	Safety mode	WEP/WPA-PSK/WPA2-PSK	WEP/WPA-PSK/WPA2-PSK
	Net Protocol	Ipv4, TCP	Ipv4, TCP
	Net Type	STA	STA





**SMARTDHÖME**

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