



IOS



Android



The image shows two smart thermostats mounted on a grey wall. The thermostat on the left is black with a blue display, showing a temperature of 25.5°C and a time of 08:00. The thermostat on the right is white with a blue display, also showing 25.5°C and 08:00. Above the white thermostat is a "WiFi" icon. The background of the right side of the image shows a modern living room with a white armchair, a floor lamp, a plant, and a large window overlooking a city.

BUILDING ENERGY SAVING
WIFI HEATING THERMOSTAT



Take your modern life.

FEATURES

- C** Clear, Concise, Convenient operation.
- O** Option of piano black or diamond white casings.
- M** Manage your heating 24/7 from anywhere
- F** Fashionable, contemporary design to suit any décor
- O** Outstanding performance, outstanding quality
- R** Remote control via the APP on your smartphone or tablet
- T** Touch panel display – no awkward buttons
- A** Accuracy of 0.5°C maintains your pre-set temperature
- B** Backlit display
- L** Lowers energy bills
- E** Easy to use - Easy to programme

Welcome

Thank you for your purchase.

Your new thermostat will provide uniform and comfortable temperature control throughout every room in your property. We bring together technology, craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design. Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please ensure a suitably qualified person installs your thermostat and complies with all local regulations.

* Your Wi-Fi thermostat supports DHCP protocol only. Please ensure your router is DHCP enabled prior to the connection process.

* Your Wi-Fi thermostat supports WPA & WPA2 only. It does NOT support WEP.

* Your thermostat Wi-Fi module frequency is 2.4Ghz.

Contents

Thermostat	1pc
2.5m external (floor) sensor (optional)	1pc
Screws	2pc
Wall plate	1pc
Installation/programming manual	1pc

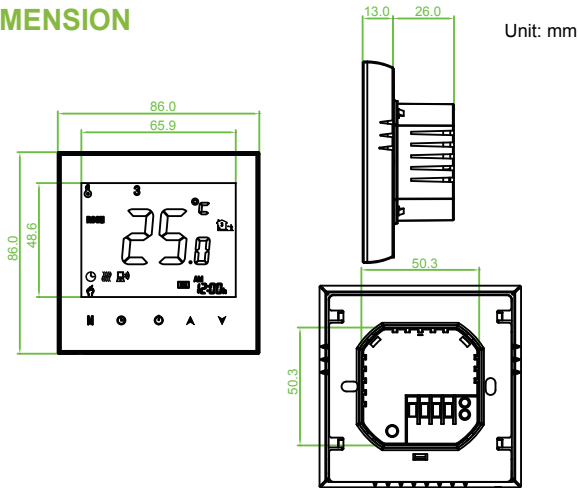
Warranty

Your thermostat carries an 18 month warranty from date of purchase. Service outwith the warranty period may incur a charge.

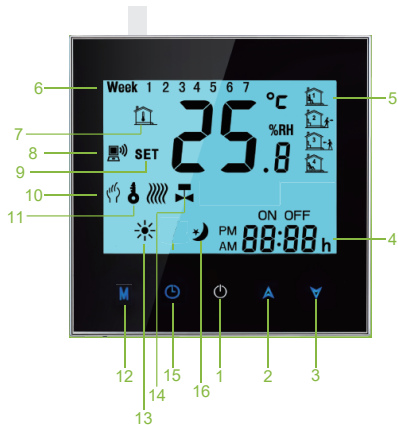
YOUR THERMOSTATS

The BHT-1000 Wi-Fi range has been developed to control electric underfloor, water heating or boiler systems using your smartphone or tablet via the thermostat's App. These units are designed for use in commercial, industrial, civil and domestic properties.

DIMENSION

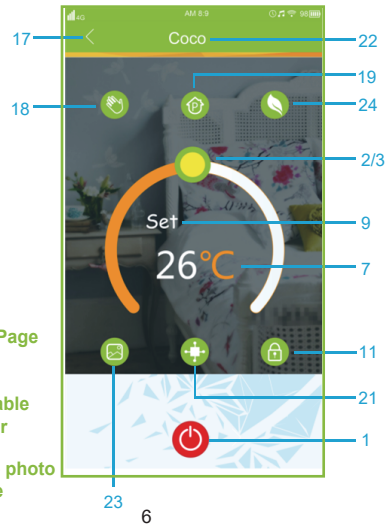


HOME SCREEN QUICK REFERENCE



1. Power
2. Temperature Up
3. Temperature Down
4. Time
5. Periods
6. Week
7. Room Temperature
8. Wi-Fi
9. Set Temperature
10. Manual
11. Lock

5



12. Mode
13. Heating On
14. Valve On
15. Clock
16. Sleep
17. Back to Home Page
18. Manual
19. Programmable
20. Set Programmable
21. External Sensor
22. Room's name
23. Choose or take photo
24. Economy Mode

6

TECHNICAL DATA

Sensor: NTC

Accuracy: $\pm 1^{\circ}\text{C}$

Set Temp. Range: $5\text{--}35^{\circ}\text{C}$

Room Temp. Range: $5\text{--}99^{\circ}\text{C}$

Power Consumption: $< 1.5\text{W}$

Timing Error: $< 1\%$

Power Supply: AC95 ~ 240V, 50 ~ 60Hz

Current Load: 3A (water heating),

16A (electric heating)

Shell material: PC+ABS (flame retardant)

Dimension: 86x86x13.3mm

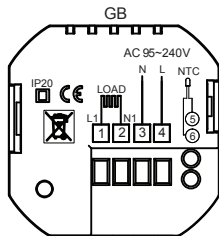
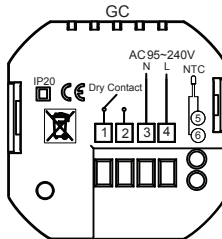
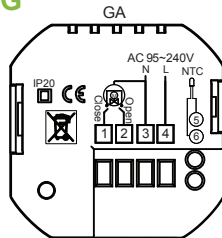
Ambient Temp.: $0\text{--}45^{\circ}\text{C}$, $5\text{--}95\%\text{RH}$

(Non-condensing)

Storage Temp.: $-5\text{--}55^{\circ}\text{C}$

Installation Hole distance: 60mm

WIRING



Note:

GA is for water heating;

GB is for electric heating;

GC is for boiler.

Notice: Do not over-tighten the terminals in your thermostat as damage may occur.

INSTALLING YOUR THERMOSTAT

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm round pattress box.

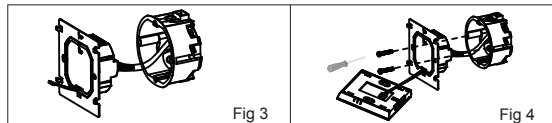
Step 1. Keep power off. See Fig 1.

Step 2. Remove the mounting Plate. See Fig 2.



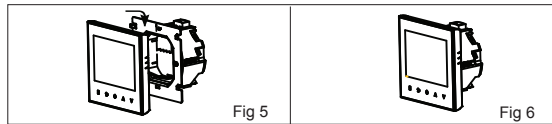
Step 3. Connect power supply, load and external (floor) sensor into the appropriate terminals if there is external sensor. (see "Wiring your thermostat" for details and Fig 3).

Step 4. Fix the mounting plate into the wall with screws in the box. See Fig 4



Step 5. Fasten body of thermostat and the mounting plate through the groove. See Fig 5.

Step 6. Installation complete. See Fig 6.



RISK OF ELECTRICAL SHOCK. Disconnect/isolate power supply prior to making electrical connections. Contact with high voltage components can cause electrical shock, severe injury or death.

OPERATION/PROGRAMMING

1. Power on/off

Press  to turn on/off.

2. Adjusting/setting the temperature

Press   to set the desired temperature

Note: If your thermostat is in program mode this temperature adjustment will revert to pre-set temperatures at the next scheduled time.

3. Setting the clock

Your thermostat will automatically update and reflect the time of your smartphone/tablet once a Wi-Fi connection is made.

4. Checking the floor temperature

Press  to display the floor temperature. The

 will show on the screen of your thermostat. Press  to revert back to room temperature.  will disappear.

5. Locking your thermostat

Press and hold  and  at the same time for 5 sec., to lock/unlock your thermostat.

6. Adjusting/setting the program schedules

When Wi-Fi connection is made, your thermostat will automatically accept the program schedule made via the APP on your device (see page 27/28 for detailed instructions) To set the program schedules through your thermostat (NOT via your smartphone/tablet) simply follow the instructions on pages 13/14.

Please note: Setting the programme schedule through your thermostat can only be carried out if there is no Wi-Fi connection between your thermostat and smartphone/tablet.

Touch **M** (mode) to change between manual mode and programme mode. In manual mode,  will show in the bottom left of the screen. In programme mode, touch and hold the icon **M** until the weekday schedule settings appear (1 2 3 4 5 will show along the top of the screen).

Use the **▲** and **▼** arrows to adjust the on time (1st period.)

Press the icon **M** and use the **▲** and **▼** arrows to set the off time (2nd period).

Press the icon **M** and use the **▲** and **▼** arrows to set the temperature.

Repeat this process for periods 3 and 4.

Press the icon **M** once more to enter the weekend schedule settings (6 & 7 will show along the top of the screen).

Repeat the above process to set the weekend schedule. Press **M** once more to confirm and exit.

Default settings for program schedule

Time display	WEEKDAY (MONDAY – FRIDAY) (1 2 3 4 5 shows on screen)		WEEKEND (SATURDAY – SUNDAY) (6 7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1 (On time)	08:00	25°C	08:00	25°C
Period 2 (Off time)	12:00	25°C	12:00	25°C
Period 3 (On time)	13:30	25°C	13:30	25°C
Period 4 (Off time)	18:00	25°C	18:00	25°C

A separate schedule may be set for weekdays (Mon – Fri) and for weekends (Sat – Sun).

8. System function settings

With power off, press and hold both M and  for 5 seconds to enter the System Functions. Press M to scroll through the available functions, and use the  and  arrows to change the available options.

Your thermostat will automatically exit the System Functions settings after approximately 15 - 20 seconds of inactivity. All settings are automatically confirmed when power is switched on.

Please note:

1. "Err" on your thermostat indicates a fault with the external (floor) sensor. Your thermostat will be inoperative until the error is rectified.
2. When sensor selection is "2" (option 4 above) the room temperature will be displayed on your thermostat by default. The floor temperature can be temporarily displayed by pressing the  button. Your thermostat will revert to display the room temperature by pressing the  button once more.

Code	Function	Setting & options	Default
1	Air temperature calibration	Range is -9°C to +9°C for internal sensor	-2
2	Switching differential	Range is 1°C to 5°C The number of degrees above/below set temperature before switching on/off When default is set to 1°C the thermostat will switch on 0.5°C below the set temperature and will switch off 0.5°C above the set temperature.	1
3	Button locking	0: = All buttons locked except the Power button 1: = All buttons are locked	1
4	Sensor selection	0 = control temperature using the internal sensor 1 = control temperature using the external (floor) sensor 2 = control temperature using internal sensor to control temperature, and external sensor to limit the floor temperature	0 for GA/GC 2 for GB
5	Minimum temperature setting	Range is 5°C - 15°C.	5
6	Maximum temperature setting	Range is 25°C - 35°C.	35
7	12/24 hour clock	0: 12h: = 12 Hour clock 1: 24h: = 24 hour clock	1
8	Display Mode	0: display set temp. only 1: display both set temp. and room temp.	1
9	Maximum floor temperature protection setting	Range is 10°C - 70°C. When chosen floor temperature is reached, the system will automatically switch off. This facility is used to protect delicate floor coverings.	45

WI-FI CONNECTION

Before using your Wi-Fi thermostat for the first time, you must configure the Wi-Fi signal and settings through your smartphone or tablet. This will allow communication between your connected devices.

Step 1 Download your APP (Fig 1-1)



Fig 1-1



Fig 1-2 IOS



Fig 1-3 Android

For **IOS** devices, search for BECA ENERGY in Apple Store and download. Alternatively, scan the relevant QR code here (See Fig 1-2).

For **ANDROID** devices, search for BECA ENERGY in Google Play and download. Alternatively, scan the relevant QR code here (See Fig 1-3).

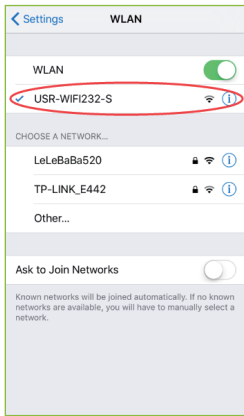
Step 2 Connect your Wi-Fi signal

On your thermostat

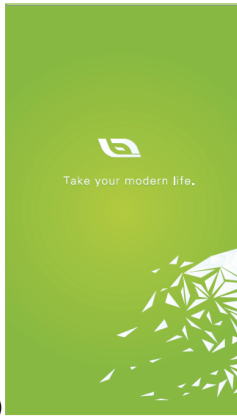
With power on, press and hold the **▲** and **▼** arrows simultaneously for eight (8) seconds. The icon  will flash.

Then, on your smartphone/tablet

Open the Wi-Fi networks (usually found in “Settings”) and connect to SSID USR-WIFI232-S signal being broadcast by your thermostat (see Fig 2)

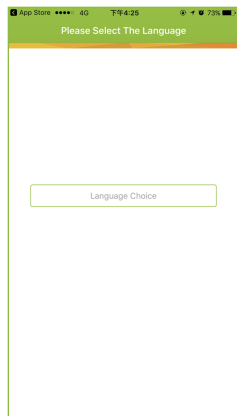


(Fig 2)

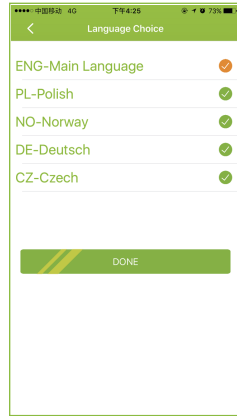


(Fig 3)

Open the App (Fig 3) and you will be taken to the first settings page (Fig 4-1 & 4-2)



(Fig 4-1)



(Fig 4-2)

Click Language Choice and select the one you need. Then press DONE. (Fig 4-1 & 4-2) You will then be taken to the home page. (Fig 5)

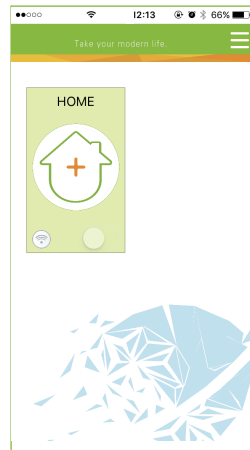
Press the “+” icon to add your room. You will be taken to the second settings page.

Note 1:

The room details will show: set temperature, room temperature, room name, Wi-Fi signal indicator and power (slide) button.

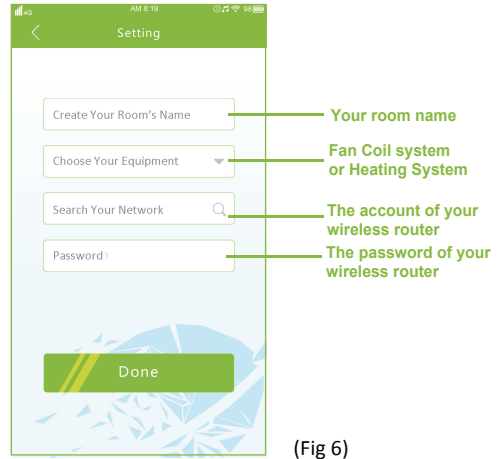
Note 2:

You may add up to 12 rooms in total. More quantity, please contact with us.



(Fig 5)

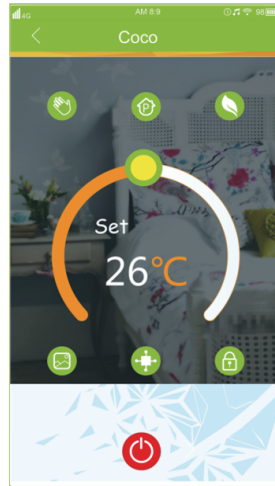
Click in the first window to name your room (Emma's bedroom, Lounge, Kitchen etc.)
In the "Choose your equipment" window please select "For Heating" in the drop-down list.
Connect the wireless signal by touching the  image to the right of the "Search your network" window. The App will automatically search for and list any available wireless routers. Select your router, enter the password for your router in the window below and click "Done"
This may typically take up to 5~90 seconds to complete.



Note 1:

Click on your room from the home screen and begin programming your thermostat (image 7)

-  Power On/Off button. If button is red, the power is “On”. If button is grey, the power is “Off”.
-  Lock/Unlock button. If button is green, the screen is “locked”. If button is grey, the screen is “Unlocked”
-  External Sensor button. Click this button to show the floor temp.
-  Photo button. Press this button to take a photo of your room or choose an image from your photo library as a background image for your room.
-  Economy button. In this mode, the temperature will be set to 26 degrees C. This temperature cannot be changed or adjusted.
-  Manual button. In this mode your heating can be set manually (i.e. NOT using the pre-programmed settings)



(Fig 7)

 Program button. When this button shows, your thermostat is in program mode and will follow any pre-set heating schedule.

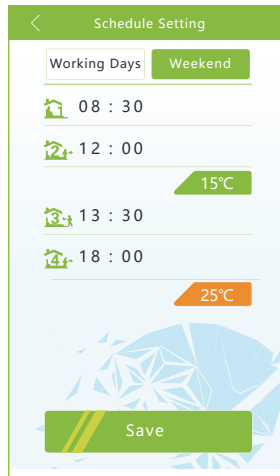
When in Manual mode, press the  button to select the Program mode  and vice-versa.

* Slide the yellow button backwards or forwards to manually adjust the temperature, the temperature will show in the centre of the page. After a few seconds the current room temperature will show. If this button is grey, there is no Wi-Fi connection.

* When in Program mode, click on the schedule logo (next to the Program button) to be taken to the schedule page (see fig 8) where you can simply click on the working days (Mon-Fri) and then the time/temperature to adjust to your preferred schedule.

* Your thermostat provides two programmed heating periods each day – You can set the “On” time, “Off” time and the temperature for each of these daily heating periods.

* Repeat the above after clicking on the Weekend



(Fig 8)

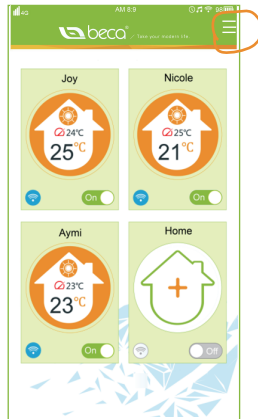
(Sat –Sun) settings at the top of the page

- * Once your schedule has been set, click on SAVE and the App will send your schedule to your thermostat and confirm the schedule has been saved.

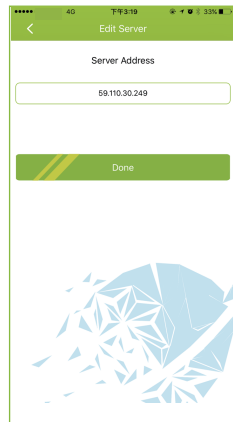
- * Your thermostat can be controlled by multiple devices. Simply download the BECA ENERGY App and go through the initial set-up/connection process. Multiple devices cannot control one thermostat simultaneously.

- * The unique ID number of your thermostat is displayed on a sticker on the rear of your thermostat.

7. If you wish to change/adjust your server settings or language, press on the menu logo in the top right of the home page (see Figs 9 & 10 & 4-2).



(Fig 9)



(Fig 10)