



### 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 also ensure a suitably qualified person installs your thermostat and complies with all local regulations.

### In the box you will find

Thermostat	1pc	Screws	2pc
User Guide	1pc	Floor Sensor (2.5m)	1pc
QC Passcard	1pc	(Floor sensor is Optional)	

### ABOUT YOUR THERMOSTATS

The BHT 6000 range has been developed to control electric underfloor, water heating or water/gas boiler systems. These units are designed for use in commercial, industrial, civil and domestic properties.

### MODEL DEFINITION

G4	Water heating, 3A
GG	Electric floor heating, 3A
GC	Water/gas boiler, 3A
L	Radio/RF
P	Weekly Programmable
N	Modbus Communication
B	Bluetooth Communication
W	Wi-Fi
SD	Both internal sensor and floor external sensor

For example: BHT-6000 GCLP

### FEATURES

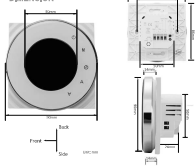
#### On Appearance

1. Height in dash screen will bring you to a secret world.
2. 2.5 mm round display area helps to protect your eyes.
3. Glass or Acrylic Lens is for your protection.
4. Touch buttons make remote operation.
5. Arranging Silver Frame opens your modern life.
6. The visible thickness above the wall is only 1.2mm.
7. Rotation to connect gives you easy installation.
8. 8mm hidden base and European 86mm round box is suitable.
9. White, black or gold housing creates your colorful life.

#### On Functionality

1. Powerful functions are available such as BACnet/Modbus/485 etc.
2. 0.1°C Accuracy keeps temperature within the level you set.
3. 1°C & 0.1°C is adjustable.
4. Data memory when power is off.
5. 3-4 years period programmable ensures comfort and economy.

#### DIMENSION



#### TECHNICAL DATA

Power Supply: 0V~240VAC, 50~60Hz  
 Current Load: 3A (water heating/water boiler/gas boiler)  
 16A (electric heating)  
 Sensor: NTC250, 10K  
 Accuracy: 0.1°C or ±1.1  
 Set Temp. Range: 5~30°C  
 Display Temp. Range: 5~39°C  
 Ambient Temp.: 0~40°C  
 Ambient Humidity: 5~95% RH (Non-Condensing)  
 Storage Temp.: -5~40°C  
 Power Consumption: <1.5W  
 Timing Error: <±1s  
 Shell Material: PC+ABS (Fireproof)  
 Installation base: 86\*86mm Square or European 60mm Round Box  
 Wire Terminal: Wire 2 x 1.5 mm<sup>2</sup> or 1 x 2.5 mm<sup>2</sup>  
 Protection Class: IP20  
 Buttons: Capacitive Touch Buttons

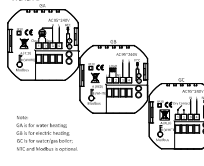
### BEFORE WIRING AND INSTALLING...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation in presence of these instructions.

#### CAUTION

**Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry.**  
 Disconnect power supply before installation.

#### WIRING



#### INSTALLATION

Your thermostat is suitable for installation within a standard 86mm pattern box or European 86mm pattern box.

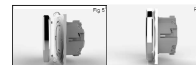
- Step 1. Keep power off. See Fig. 1.
- Step 2. Remove the mounting Plate by rotating the LCD part. See Fig. 2.



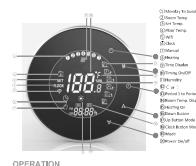
- Step 3. Connect power supply, lead into the appropriate terminals. Use "Wiring your thermostat" for details and Fig. 3).
- Step 4. Fix the mounting plate into the wall with screws in the box. See Fig. 4.



- Step 5. Fasten body of thermostat and the mounting plate through routing. See Fig. 5.
- Step 6. Installation complete. See Fig. 6.



#### HOME SCREEN QUICK REFERENCE



#### OPERATION

During Power On:

- 1. Power On/Off:** Press **ON/OFF** to turn the thermostat on/off.
- 2. Manual & Programmable:** Touch **M** (mode) to change between manual mode and programmable mode. In manual mode, **TEMP** will show in the bottom left of the screen. In programmable mode, the period icon will show in the right side.
- 3. Setting Temperature:** In the mode of programmable, set temperature, time and timing on/off could not be adjusted. If the user want to change, please go to manual mode or programmable mode. In the mode of manual, press **A**, **V** to set the desired temperature.
- 4. Adjusting/Setting the clock:** Touch the **CLOCK** to set minute, hour and weekday (1 = Monday, 2 = Tuesday etc.) by using the **A**, **V** arrows. Press **OK** once more to confirm and exit.

### 5. Locking your thermostat

Press and hold the **M** (mode) for 5 seconds to lock/unlock your thermostat. In item 3 of high sensor setting, you can select full lock or half lock.

### 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 you device (see below for detailed instructions) to set the program schedules through your thermostat (NOT via your smartphone/tablet) simply follow the instructions on page 13/14.

Please enter 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** to change between manual mode and programmable mode. In manual mode, **TEMP** will show in the bottom left of the screen.

In programmable mode, touch and hold the icon **W** will show the weekday schedule settings appear (1, 2, 3 & 5 will show along the top of the screen). Use the **A** and **V** arrows to adjust the set time.

Press the icon **W** and use the **A** and **V** arrows to set the off time (end period).

Press the icon **W** and use the **A** and **V** arrows to set the temp. Repeat this process for periods 3 and 4.

Press the icon **W** once more to enter the Saturday schedule settings (6 will show along the top of the screen).

Repeat the above process to set the period and temp. and Sunday schedule. Press **OK** once more to confirm and exit.

#### Default settings for program schedule

Periods	ONSET (START) (TEMP)	ONSET (START) (TIME)	OFFSET (END) (TEMP)	OFFSET (END) (TIME)
MONDAY	18°C	07:00	21°C	22:00
TUESDAY	18°C	07:00	21°C	22:00
WEDNESDAY	18°C	07:00	21°C	22:00
THURSDAY	18°C	07:00	21°C	22:00
FRIDAY	18°C	07:00	21°C	22:00
SATURDAY	18°C	07:00	21°C	22:00
SUNDAY	18°C	07:00	21°C	22:00

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

### 7. Checking the temperature of floor sensor

Press and hold the **TEMP** arrow for 5 seconds to display the temp. of floor sensor.

### 8. Returning to factory default setting

Press and hold the icon **W** and **V** then the wall module will be back to factory setting.

**During Power Off**

**Setting the Functions and Options**

When power is off, press and hold **M** and **O** at the same time for 5 sec. in order to reach system functions. Then press **M** to scroll through the available functions, and on the **A** and **V** arrows to change the available options. All settings are confirmed automatically.

Code	Function	Setting and options	Default
1	Temperature compensation	3 to 40 °C (For external sensor)	-2
2	Auto lock	On: All buttons are locked except power button. Off: All buttons are locked.	Off
3	Auto set temp.	3 to 33 °C	10
4	Auto set time	1:00 to 1:59	04
5	100% Heat	On: 100% Heat. Off: 100% Heat.	On
6	Display lock	On: Display lock on temp. and room temp. Off: Display set temp. 4 to 9	Off
7	Sensor type	On: Internal sensor (to control or heat the room). Off: External sensor (to control or heat the room). On: Internal/External sensor (Internal sensor controls the temp., external sensor to detect the temp.)	On
8	Weekly program	1:00 to 1:59	10
9	High temperature protection setting	1 to 50 °C	45
10	Lock/Unlock temperature setting	1 to 50 °C	1
11	Lock/Unlock heating and boiler heating	On: On (For water heating and boiler heating). Off: Off	0

**WiFi 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 1-2 iOS



Fig 1-3 Android

For **ANDROID** devices, search for **BECCA ENERGY** in Google Play and download. Alternatively, scan the relevant QR code here (Fig 1-2) or in the back of manual. For **iOS** devices, search for **BECCA ENERGY** in Apple Store and download. Alternatively, scan the relevant QR code here (Fig 1-3) or in the back of manual.

**Step 2 Connect your Wi-Fi signal**

On your thermostat:

With power on, press and hold the **O**, **A** and **V** arrows simultaneously for eight (8) seconds. The top **W** will flash.

Then, on your smartphone/tablet:

Open the Wi-Fi networks (usually found in "Settings") and connect to SSID: **1008.WIFI023**. Signal name is broadcast by your thermostat (see Fig 2).

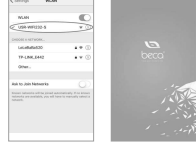


Fig 2

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



Fig 4-1

Click Language Choice and select the one you need. Then press the power button. You will then be taken to the home page (Fig 5)

Press "Go" to "Scan to add your room. You will be taken to the second setting page.

Note 1:

The room select will show set temp., room temp., room name, Wi-Fi signal indicator and power (slide) button.

**Note 2:**

You may add up to 32 rooms in total. More quantity, please contact with us.

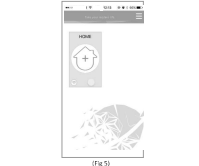


Fig 5

Click the first window to name your room (Bm'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 30 seconds to complete.

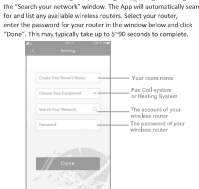


Fig 6

Note 3:

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

Power On/Off button. If button is red, the power is "Off". If button is grey, the power is "On".

Lock/Unlock button. If button is green, the screen is "locked", if

button is grey, the screen is "Unlocked"

External Sensor button. Click the button to show the floor temp.

Photo button. Press the button to take a photo of your room or choose an image from your photo library as a background image for your room.

Custom 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 mode **+** and vice versa.

Click the left button backwards or forwards to manually adjust the temperature, the temperature will show in the center 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 (see Fig 8) which you can simply click on the wrong days (On/Off) or 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 this above after clicking on the Weekend (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 BECCA 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.



Fig 8

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

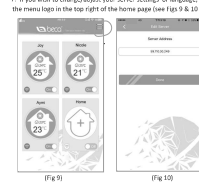


Fig 9

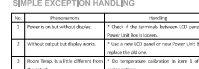


Fig 10

**SIMPLE EXCEPTION HANDLING**

Code	Problem	Remedy
01	Thermostat is not online	Check if the thermostat is powered on and if the Wi-Fi signal is strong
02	Thermostat is not online	Check if the thermostat is powered on and if the Wi-Fi signal is strong
03	Thermostat is not online	Check if the thermostat is powered on and if the Wi-Fi signal is strong

**SERVICE**

Your thermostat carries an 18-month warranty from date of purchase. Service outside the warranty period may incur a charge. More detail please contact with us directly.