

Heating Room Thermostat User Guide

Model: BHT-3000 (Colorful Letters on the screen)



Welcome

Your new thermostat will provide years of reliable service. Using this digital thermostat will provide more uniform comfort in your home through the seasons. Thank you for buying the product! Please read this manual for complete instructions on installing and operating your thermostat. If you require further assistance, please feel free to contact us.

In the box you will find

Thermostat	1pc
Screws	2pc
User Guide	1pc
Wall plate	1pc

Service

We offer the warranty of 18 months from the sales day. If it is not the problem of quality or beyond the warranty time, we will charge for the after-sale service.

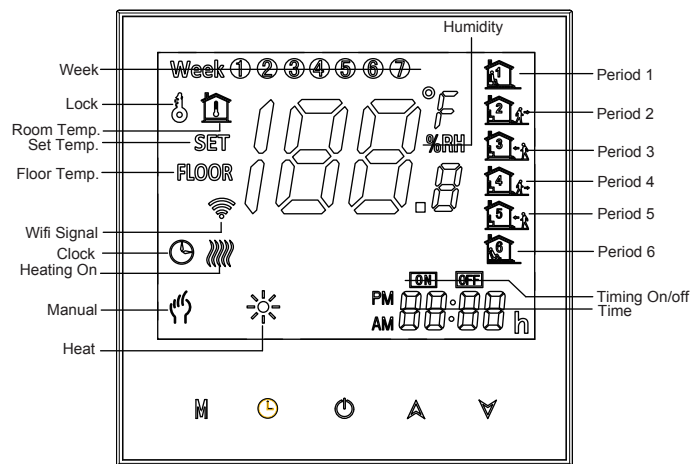
About your thermostat

BHT-3000 is a thermostat, used as controlling floor electric heating or water heating or water/gas boiler system open or close. The thermostat is used in the commercial, industrial, hospital, hotel, hotels, civil buildings and villas for heating control.

Features of your thermostat

Modern design similar as a cell phone.
Beautiful Frame CHROME creates elegant life.
Acrylic lenses to avoid the finger scratch.
Touch Button makes simple operation.
Large screen display with backlight is easy to read—even in the dark.
5+1+1 six periods program schedules maximize comfort and economy.
One-touch temp control overrides program schedule at any time.
Precise comfort control keeps temperature within 1°C of the level you set.
Internal and external sensor selectable is suitable for any place.
Data memory when power is off. (selectable)
Easy installation.
Suitable for 86mm hidden box and european 60mm round box.

Home screen quick reference



Model definition of your thermostat

GA: Water heating, 5A
GB: Electric floor Heating, 16A
GC: Water/gas Boiler Heating, 5A
N/A: Internal sensor only
S2: Both internal sensor and floor external sensor
L: Backlight
P: Weekly programmable
N: RS485
P and N could not be compatible at the same time.
For example: BHT-3001 GAS2LP

Technical Data of your thermostat

Sensor: NTC
Accuracy: $\pm 1^{\circ}\text{C}$
Set Temp. Range: 5-35°C
Room Temp. Range: 5-99°C
Power Consumption: < 1.5W
Timing Error: < 1%
Power Supply: 95 ~ 240VAC, 50 ~ 60Hz
Current Load: 5A (water heating),
16A (electric heating)
Shell material: PC+ABS (flame retardant)
Dimension: 86x86x13.3mm
Ambient Temp.: 0-45°C, 5-95%RH
(Non-condensing)
Storage Temp.: -5-55°C
Installation Hole distance: 60mm

Operation

1. Setting Power on/off

Press to turn on/off the power.

2. Setting Temperature

Press to set the temperature.

3. Setting the Clock

Press to set minute, hour and week.

Press for adjusting.

Press again to leave time setting.

4. Adjusting program schedules

Press M to change manual and weekly programmable.

Press and hold to weekly programmable setting.

12345 will display on the screen.

Press to time setting of the first period.

Press to temperature setting of the first period.

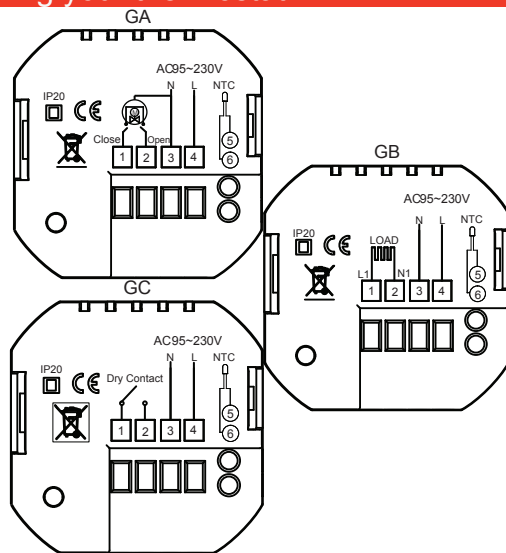
Press to time setting of the second period.
 Press to temperature setting of the second period.
 Press to time setting of the third period.
 Press to temperature setting of the third period.
 Press to time setting of the fourth period.
 Press to temperature setting of the fourth period.
 Press to time setting of the fifth period.
 Press to temperature setting of the fifth period.
 Press to time setting of the sixth period.
 Press to temperature setting of the sixth period.
 Press to Saturday setting.
 Press to Sunday setting.

Remark: all values please press **A** for the adjustment.

Time display	WEEKDAY (MONDAY – FRIDAY) (1 2 3 4 5 shows on screen)		WEEKEND (SATURDAY) (6 shows on screen)		WEEKEND (SUNDAY) (7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1	06:00	20°C	06:00	20°C	06:00	20°C
Period 2	08:00	15°C	08:00	20°C	08:00	20°C
Period 3	11:30	15°C	11:30	20°C	11:30	20°C
Period 4	13:30	15°C	13:30	20°C	13:30	20°C
Period 5	17:00	22°C	17:00	20°C	17:00	20°C
Period 6	22:00	15°C	22:00	15°C	22:00	15°C

The above is the 5+1+1 weekly programmable.

Wiring your thermostat



Please note:

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

GA for water heating, GB for electric heating,

GC for water/gas boiler. External Sensor is optional.

5. Setting functions and options

During power off, press and hold M and at the same time for 5 sec. to system functions. Then press M to change the different items. All the settings will confirm automatically when power is on. Press **A** to confirm, to cancel.

Code	Function	Setting and options	Default
1	Temperature compensation	-9 to +9 °C (for internal sensor)	-2
2	Deadzone Temperature	1 ~ 5 °C	1
3	Button locking	00: All buttons are locked except power button. 01: All buttons are locked.	01
4	Sensor types	In: Internal Sensor (to control or limit the temp.) Ex: External Sensor (to control or limit the temp.) AL: Internal/ External Sensor (Internal sensor to control the temp., external sensor to limit the temp.)	AL
5	Min. Set Temp.	5-15 °C	5
6	Max. Set Temp.	15-45 °C	35
7	12/24 hours	00:12 hours 01:24 hours	01
8	Display Mode	00: Display both set temp. and room temp. 01: Display set temp. only	00
9	High temperature protection setting.	25-70 °C	45
A	Low temperature protection setting.	0-10 °C	10
B	Standby Brightness	0-99 ; bigger value, more brightness	04
C	IP Address	0 x 01-0 x FF	01

Remark: 1. When the sensor type is 01, room temp. and floor temp. could be changed by pressing and holding for 3 second.
 2. Press and hold **A** for 5 sec. to lock/unlock the button.

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.

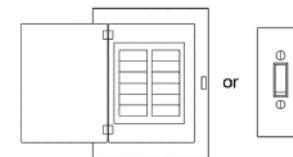


Fig 1

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

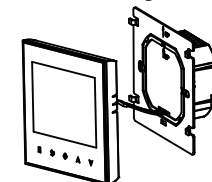


Fig 2

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).

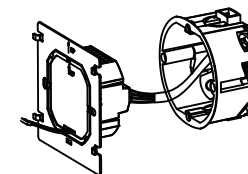


Fig 3

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

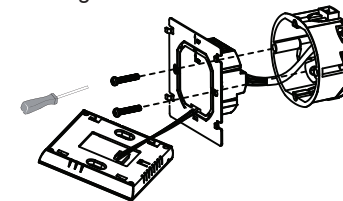


Fig 4

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

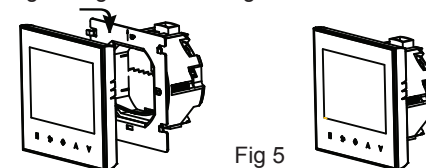


Fig 5

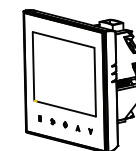


Fig 6

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.