Heating Room Thermostat

User Guide

Model：BHT-1000

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.
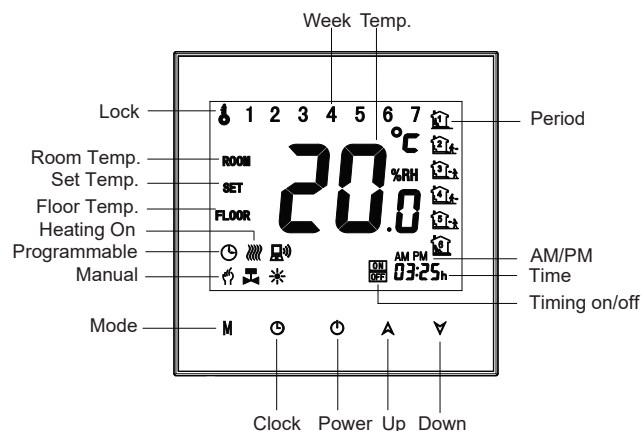
About your thermostat

BHT-1000 is a thermostat, used as controlling floor electric heating or water heating system electric actuators 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 scrath.
Touch Button makes simple operation.
Large screen display with backlight is easy to read—even in the dark.
5+2 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. (customized)
Easy installation.
Suitable for 86mm hidden box and european 60mm round box.
RS485/MODBUS communication is optional.

Home screen quick reference

Model definition of your thermostat

GA: Water heating, 3A
GB: Electric floor Heating, 16A
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-1000 GAS2LP

Technical Data of your thermostat

Sensor：NTC
Accuracy：±1℃
Set Temp. Range：5-35℃
Room Temp. Range：5-99℃
Power Consumption：< 1.5W
Timing Error：<1％
Power Supply：95 ~ 240VAC, 50 ~60Hz
Current Load：3A（water heating）,
            16A（electric heating）
Shell material：PC+ABS (flame retardant)
Dimension：86x86x13.3mm
Ambient Temp.：0-45℃, 5-95％RH
            （Non-condensing）
Storage Temp.：-5-55℃
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.
The setting will confirm automatically several sec. later.

3. Adjusting program schedules

Press M to change manual and weekly programmable.

Press 🕐 to set the time. The order is min.-hour-week.

Press 🕐, 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.
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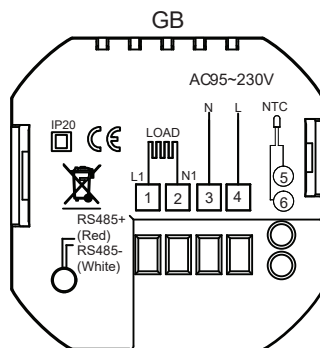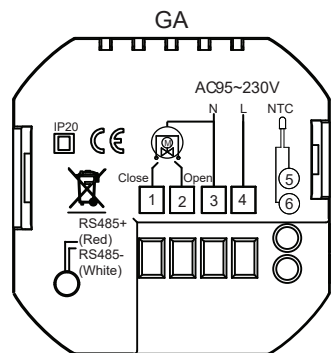Press 🕐 to Sat. & Sun setting.

Remark: all values please press Λ Ⅴ for the adjustment.
Factory default setting of period time and temperature

Time display	Weekday (Mon–Fri)		Weekend (Sat & Sun)	
	time	temperature	time	temperature
🏠	06:00 get up	20℃	06:00 get up	20℃
🏢	08:00 work	15℃	08:00 out	20℃
🏠	11:30 afternoon rest	15℃	11:30 afternoon rest	20℃
🏢	13:30 work	15℃	13:30 out	20℃
🏢	17:00 off work	22℃	17:00 go homek	15℃
🏠	22:00 rest	15℃	22:00 rest	15℃

The above is the 5+2 weekly programmable.

Note: Programmable will be invalid for RS485 or Modbus type.

GA

AC95~230V
N L NTC
IP20
Close Open
1 2 3 4
5 6
RS485+
(Red)
RS485-
(White)

GB

AC95~230V
LOAD
N L NTC
IP20
L1 N1
1 2 3 4
5 6
RS485+
(Red)
RS485-
(White)

Remark:
GA is for water heating;
GB is for electric heating;
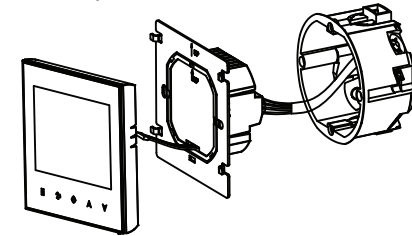NTC and RS485 is optional.

8. 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 Λ to confirm, Ⅴ to cancel.

Code	Function	Setting and options	Default
1	Temperature compensation	-9 to +9℃	-2
2	Deadzone Temperature	0～5℃.	1
3	Botton locking	00: All bottons are locked except power button. 01：All bottons are locked.	01
4	Sensor types	In：Internal Sensor（to control or limit the temperature） Ex：External Sensor（to control or limit the temperature） AL：Internal/ External Sensor（Internal sensor to control temperature, external sensor to limit temperature） Remark: Please make sure the right sensor. If choose the wrong or bad one, LCD will display Err.	In
5	Min. Set Temp.	5-15℃	5
6	Max. Set Temp.	15-45℃	35
7	12/24 hours	00: 12h 01: 24h	01
8	Display Mode	00：display both set temp. and room temp. 01：display set temp. only	00
9	Low temperature protection setting.	0-20℃.	0
A	High temperature protection setting.	10-70℃.	45
B	Backlight Time	3~99 s	5
C	Return to factory setting	00: Normal Status 01:Return to factory setting	00

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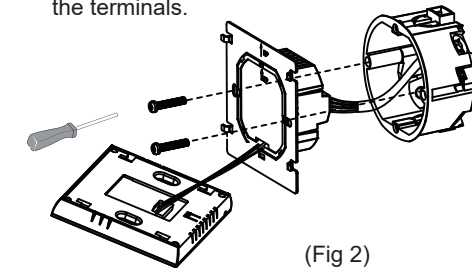2. Press and hold Λ Ⅴ for 5 sec. to lock/unlock the button.

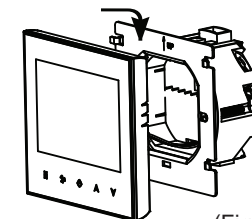This product is suitable for standard 86mm wall box or european 60mm round box.

(Fig 1)

1. Connect the wire of power and other equipment into the terminals.
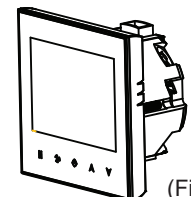

(Fig 2)

2. Fix the wall plate into the wall box by a screwdriver.

(Fig 3)

(Fig 4)

4. Finished.

3. Connect the LCD board into the wall plate.

⚠ **WARNING:** Please arrange the professional technician to install this product according to installation drawing and instruction.

RISK OF ELECTRICAL SHOCK. Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.instruction.