BOT-R7X-WIFI Gas Boiler Heating Thermostat

Application

Intelligent digital thermostat is a temperature controller suitable for floor heating systems. Through comparing ambient temperature and set temperature, it controls the working state of the electric valve of the floor heating system to adjust the ambient temperature, which is comfort and energy saving.

Operating Instructions

ON/OFF key: Press the ON/OFF key to turn on and off once; Press shutdown again while closing all valves.

Mode switch key: In the power-on state, press to switch the working mode. The LCD indicates the manual mode and the display indicates the automatic mode.

Regulation key: In the startup state, press the button and the temperature will flash, then rotate the outer frame to adjust the temperature setting.

Clock adjustment: In the power on state, press and hold the button for 5 seconds. After the icon flashes, rotate the box to adjust. Press the button to switch between time and week adjustments, and press the button to save and exit.

Lock key function: In the power on state, press and hold the button for 5 seconds to enter the lock button state on the panel. A lock icon appears at the bottom of the display screen, indicating successful lock button locking

Low Temperature Protection Function

Advanced options enter the third option ON, the thermostat is in the shutdown state, when the indoor temperature is lower than 5 degrees, the thermostat automatically turns on heating. when the indoor temperature rises to 5 degrees, the thermostat automatically turns off heating.

WiFi Connection

1. When the temperature controller is turned off, press and hold the button for 5 seconds. The WiFi icon on the temperature controller display screen will flash (slowly), and the temperature controller will enter the code checking state.
2. In the list of (small household appliances) devices, find the temperature controller product (Bluetooth+WIFI version) in the specified distribution mode.
3. Click the confirmation button on the page, select the WiFi in the device's work area that can connect to the internet.
4. Enter the WIFI password, click Next, click "Connect" according to the page prompts, find the prompt content, dick "Prompt Content". and return to the Tuya app to enter the distribution process.

Electrical Specification

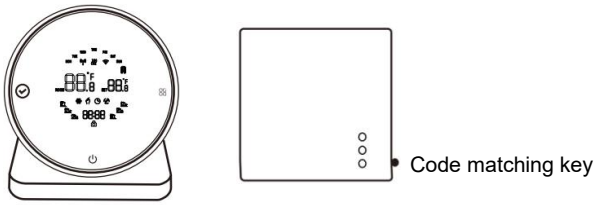
1. Temperature sensor: NTC
2. Temperature precision: +0.5°C
3. Self- consumed: < 170uW
4. Voltage: 3pcs 1.5V batteries
5. Load current: 3A(negative)
6. Protection grade: IP20

Wiring Diagram

Zero	Fire	Pump	K1	K2	Normally open	Normally close

Remark: K1 K2 is a passive linkage of wall-hung furnaces.
Normally Open: Motorized valve remain open
Normally Close: Motorized valve remain close .
Notes: since some circuits of this product involve strong electricity, which need to be installed by professionals.

Code Matching Process:



1. Power on the receiving panel, the power indicator is long on, Press and hold the code matching button, and the code matching indicator flashes.

2. Install three pieces AA batteries on the transmitting panel.

After turning off the power, press and hold the ⊘ button for 5 seconds to check the code. When the code checking indicator light on the receiving panel remains on, the code checking is successful.

Programming Mode Operation

In the startup state, press and hold the ⊞ button for 5 seconds to enter programming mode. After entering programming mode, press the ⊞ button to switch parameters, rotate the outer frame to adjust various parameters, press the ⊞ button to adjust for minutes, and press the ⊞ button to adjust the temperature. The adjustment method for the following time periods is the same as the first time period. Press the ⏻ button to save and exit.

Key	Option		Icon	Time	Adjust time	Default Value	Adjust Temp.
⊞	Workday	1		06:00	Rotate Outer Frame	20°C	Rotate Outer Frame
		2		08:00		16°C	
		3		11:30		16°C	
		4		12:30		16°C	
		5		17:00		22°C	
		6		22:00		16°C	
	Day Off	1		08:00		22°C	
		2		23:00		16°C	

Parameter Setting

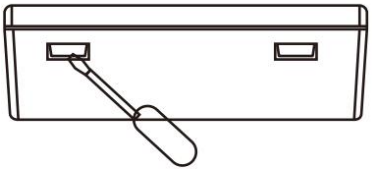
In the *POWER OFF* state, long press the ⊞ button for 5 seconds to enter the parameter setting interface. At this time, press the ⊞ button to cycle through the selection of the parameters to be set, rotate the outer frame to adjust the parameters of each item, and press the ⏻ button to save and exit.

Parameter Item	Parameter Name	Default Value	Functional Meaning
1	Temperature compensation	0	The temperature compensation range: -9.9~9.9°C
2	Switch deviation setting	1	The temperature difference start-up range is 0.5~10°C
3	The shutdown antifreeze function starts and stops	ON	OFF: Turn off the antifreeze function ON: Turn on antifreeze function
4	Rest day selection	2	0: Turn off programming 1: Take a day off 2: Two-day weekend 3: No rest
5	Set the upper limit of the temperature	60°C	Set the upper temperature range from 15~95°C
6	Restore factory settings	—	Long press ⊘ for 3 seconds, display "——_" to restore factory settings

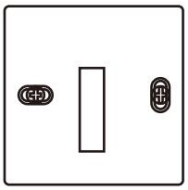
Installation Method

1. Install an expansion screw sleeve with a spacing of 59mm on the wall.

2. Use a screwdriver to separate the upper cover and the lower cover, pursuant to the wire direction, pass the wire through the back cover to the wiring duct, and leave about 20cm long as per the actual situation.



3. Fix the bottom shell to the wall, and finally fix the wire, and cover the front shell on the bottom shell.



Inspection Steps

Install the intelligent touch screen thermostat in a place where it is easy for the user to view the screen and adjust the temperature set point. The thermostat is located in a place that can represent the overall ambient temperature of the room. Avoid installing the thermostat near hot and cold sources, such as vents, heaters, outdoors, etc.

Common Faults Handing

Phenomenon	Solutions
Don't start up	1. Check whether the battery is installed backwards. 2. Inspect whether the boot key is valid LCD displays.
LCD displays messy code	Whether the rear shell installation is deformed, it can be loosened and reinstalled.
Display is normal, but there is no output	1. Check whether the boundary between the main control board and the power board is damaged. 2. Check whether the output is connected to the wrong wire.
Temperature displays error	Calibrate the panel temperature display via the first item of advanced options.