

SN19 series thermostat

Sauna controller

operating instruction

SN19-series thermostat user manual

SN1 The SN19 series temperature controllers are designed for the intelligent temperature control of sauna rooms, steam rooms, yoga studios, and other product systems. They can meet users' needs for setting temperature, timing, enjoying music, listening to radio, and more.

The operation procedure can be modified free of charge according to customer needs.

I. Function Introduction

SN19-series temperature controllers are divided into SN-19A button version and SN-19C touch version. They can control heating temperature, time, and inner and outer lights; they have Bluetooth function (Bluetooth version), MP3 playback function, and radio function.

operational principle :

The temperature adjustment range and heating time can be set before leaving the factory according to customer requirements, and users can only adjust within this range. After setting the time and temperature, the thermostat starts working, and the controller will automatically shut down when the set time is reached.

When the thermostat detects that the room temperature or the temperature of the electric heating film reaches the set temperature, the relay contact is broken and the heating stops; when the room temperature drops below the return temperature, the relay contact is closed and the heating starts. The cycle is executed to achieve the purpose of constant temperature.

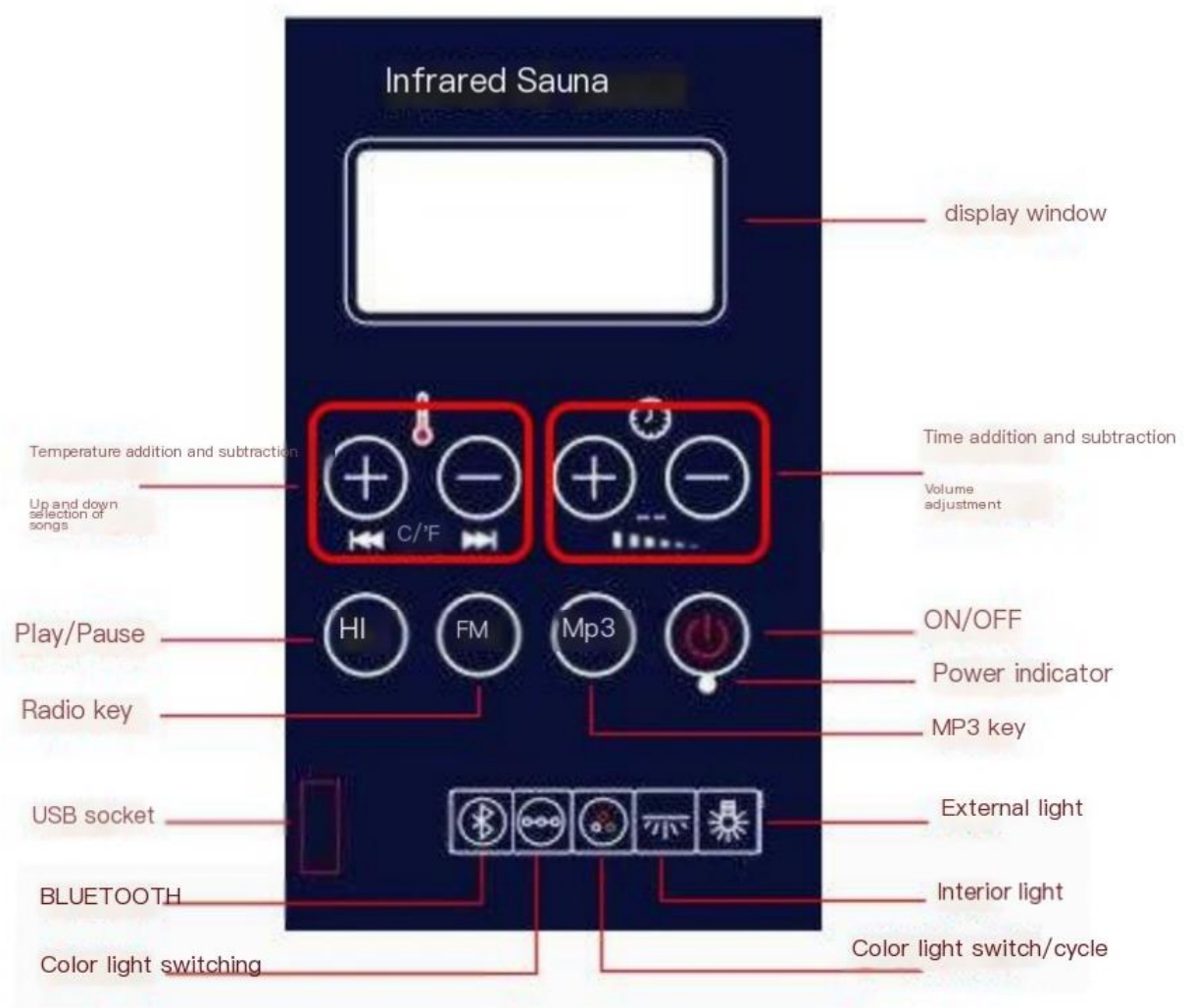
functional characteristics :

- High performance industrial grade MCU is adopted. It has high anti-interference performance and can work stably and reliably under various harsh working conditions
- The large screen LCD displays a blue screen, which is high-grade and elegant
- Temperature upper and lower limits are preset, and the ambient temperature is detected and controlled in real time
- Temperature information setting, query function
- Time setting, display function
- Radio function
- Bluetooth capability (Bluetooth version)
- MP3 function, can be inserted SD card and U disk, to achieve music playback function
- High fidelity dedicated power amplifier, dual power supply.

2. Technical parameters

- Rated input voltage: 220VAC
- Temperature control accuracy: $\pm 0.1^{\circ}\text{C}$
- Temperature setting range: $1^{\circ}\text{C} \sim 65^{\circ}\text{C}$, step 1°C (customizable)
- Set the time range: 1~99 minutes, step 1 minute (customizable)
- Resolution: 1°C
- Working temperature: $-10^{\circ}\text{C} \sim 75^{\circ}\text{C}$
- Maximum load power: 15KW (customizable according to customer requirements)

3. Key description



The memory function of time regulation can be customized.

These two keys are used as selection keys after pressing the [FM] or [MP3] keys to switch between the previous and next music, and for changing channels when using a radio.

Press this button to enter the MP3 music playback state of the U disk.

If Bluetooth is open, press this button to turn off Bluetooth. If the U disk is normal, it will display the total number of tracks in the U disk and the current track number. After 3 seconds, it will return to the sauna state.

5. [Radio] button

Press the [radio] button to enter the radio state, press the [temperature+] and [temperature-] buttons to select the channel, and press the [time+] and [time-] buttons to adjust the volume.

If you think there are not enough channels or are not clear, long press the [radio] button to search for channels. After searching, select the channel to play.

The antenna of the radio is very important, should be extended and placed in a space without shielding, otherwise the channel reception will be affected or the noise will increase.

6. [Internal Light] Key

Turn the indoor light on or off. Press the indoor light on, and press the indoor light off.

The internal lamp can work independently and can still be operated without turning off the machine.

7. [External lamp] Key

Turn the outdoor lights on or off. Press the outdoor light on button and press the outdoor light off button.

The external lamp can work independently and can still be operated without turning off.

8. [Bluetooth] Key (Bluetooth version)

Turn Bluetooth on or off.

Press this button to start Bluetooth. You can connect to Bluetooth through your mobile phone. After turning on Bluetooth, the Bluetooth indicator light will be on. When bluetooth is not connected, the light will flash fast, and once bluetooth connection is successful, it will flash slowly.

After connecting to Bluetooth, the control is carried out by the connected device. The pause and volume buttons on the panel are not controlled by Bluetooth.

Press the button again to turn off Bluetooth

9. [Color light cycle/color light off] key

Press this key to enter the cycle color change state, 10 seconds to change a color, press again to turn off the color light.

10. [Color light switch] key

Press this button once and the lights change to a different color.

Function operation

1. Set the temperature

When the machine is turned on, it will display the set temperature for 3 seconds. If the preset temperature is not suitable for the user's needs, the user can set it through [temperature+] [temperature-].

2. set-up time

If you need to adjust the time, you can use the [Time+] and [Time-] keys to adjust.

3. MP3 music

First, insert the U disk into the USB port, press the [MP3] key and select the MP3 mode. If the U disk is inserted before starting up, press MP3 to play directly.

Use the [Previous] and [Next] keys to select songs, and use the [Volume+] and [Volume-] keys to adjust the volume.

If the display shows "- -", it means that the U disk is not inserted properly, or the U disk is not compatible. You can disconnect the power supply and restart it. (Note: Do not turn off the computer with the power switch, but disconnect the power supply, such as cutting off the air switch, or unplug the power plug.)

4. Bluetooth (Bluetooth version)

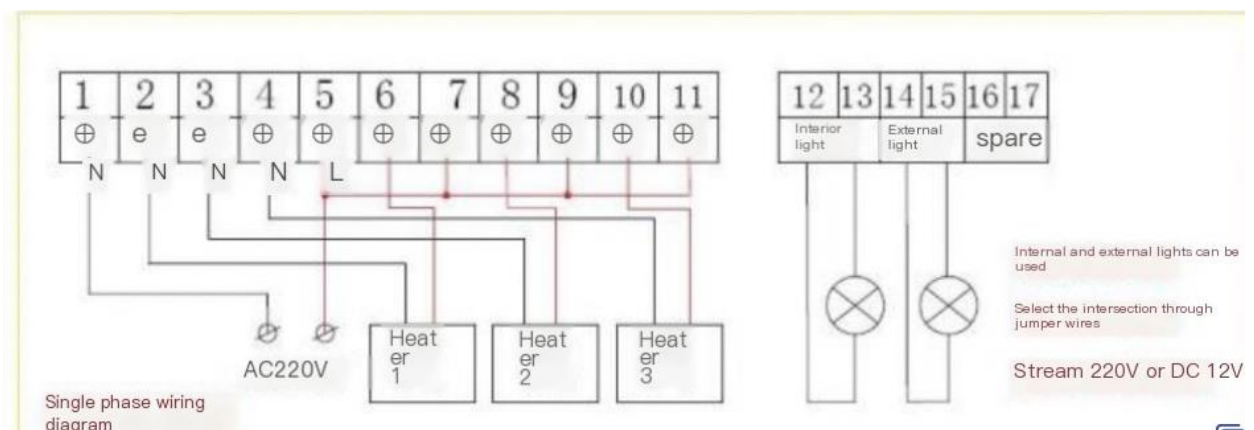
Press the [Bluetooth] button to enable the Bluetooth function. At this time, the Bluetooth indicator light above will be lit and display according to the actual status. When no connection is made, the light flashes quickly, and when the connection is successful, the light flashes slowly.

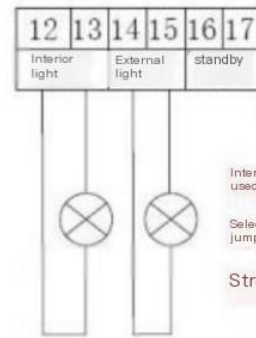
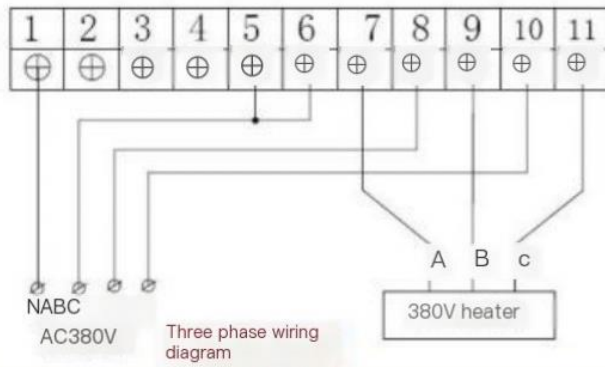
If you connect to your phone and turn on Bluetooth, the device will search for your phone. Click to connect without entering a password, and the connection will be successful. Once connected, your phone will save this connection information. The next time, as long as both your phone and the device are turned on Bluetooth, they will connect automatically, allowing you to play directly from your phone.

5. Wiring

The control board is connected to the power board with 14P wiring; if it is double control, the control main board and the control sub-board are connected with 10P wiring.

The single-phase wiring diagram is as follows:





Internal and external lights can be used

Select the intersection through jumper wires

Stream 220V or DC 12V



FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.