
T19XWHB-7(SL) BOILER THERMOSTAT

Installation and operation instructions

T19XWHB-7(SL) can replace most common residential thermostat and is designed to be used with electric, gas or oil heating control system. Unlike ordinary single unit design thermostat, this unit is a new type of thermostat separating the thermostat function into two units.

SPECIFICATION:

- Power supply: 4 AAA batteries
- Temperature setting range : 5°C~35°C
- Temperature accuracy: 0.1°C
- Operating temperature: 0~50°C ;
- Humidity range: 90%
- Shipping & storage temperature: -20~65°C
- Dimensions: 124*88*24.4MM
- Installation: can be installed on the wall or mounted in 86 junction box or on the American standard junction box

FEATURE:

- Large LCD display
- The screen displays the set temperature and the room temperature also time simultaneously
- Permanent user setting and program setting retention during power loss
- Both Vacation mode and hold duration mode available for comfort and energy saving
- Optional programming Period: **7 days independent programming** 、 **7 days unified programming** or Separate 5-day (weekday) and 1-day/1-day (Saturday/Sunday) programming with 4 or 6 separate time/temperature periods per day.6
- Display temperature recalibrates
- Low battery indication
- Anti-freezing protection
- Window open function
- **Password lock function**

IMPORTANT SAFETY INFORMATION

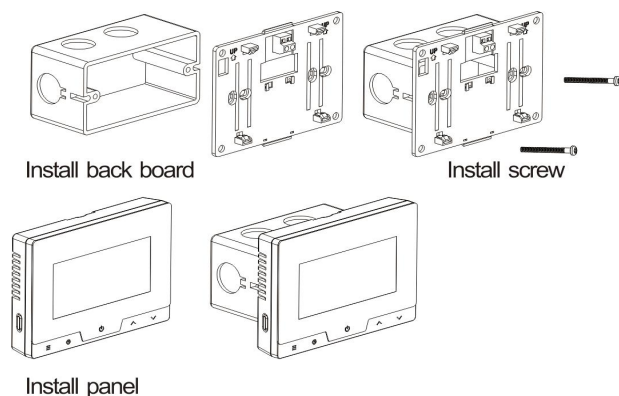
- Always turn off power at the main power source by unscrewing fuse or switching circuit breaker to the off position before installing, removing, cleaning, or servicing this thermostat.
- Read all of the information in this manual before installing this thermostat.
- Only a professional contractor should install this thermostat.
- All wiring must conform to local and national building and electrical codes and ordinances.
- This thermostat has a removable fuse to protect the system from damage. If system is not operating

properly, check wiring and replace fuse if necessary.

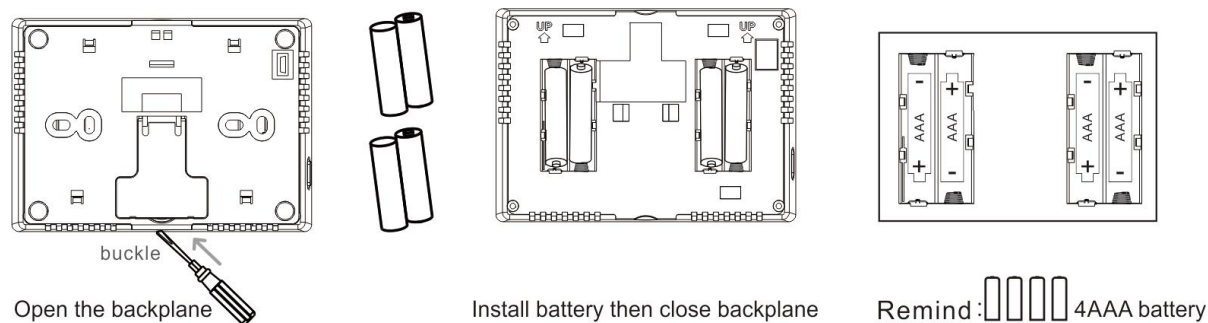
- Use this thermostat only as described in this manual.

INSTALLATION :

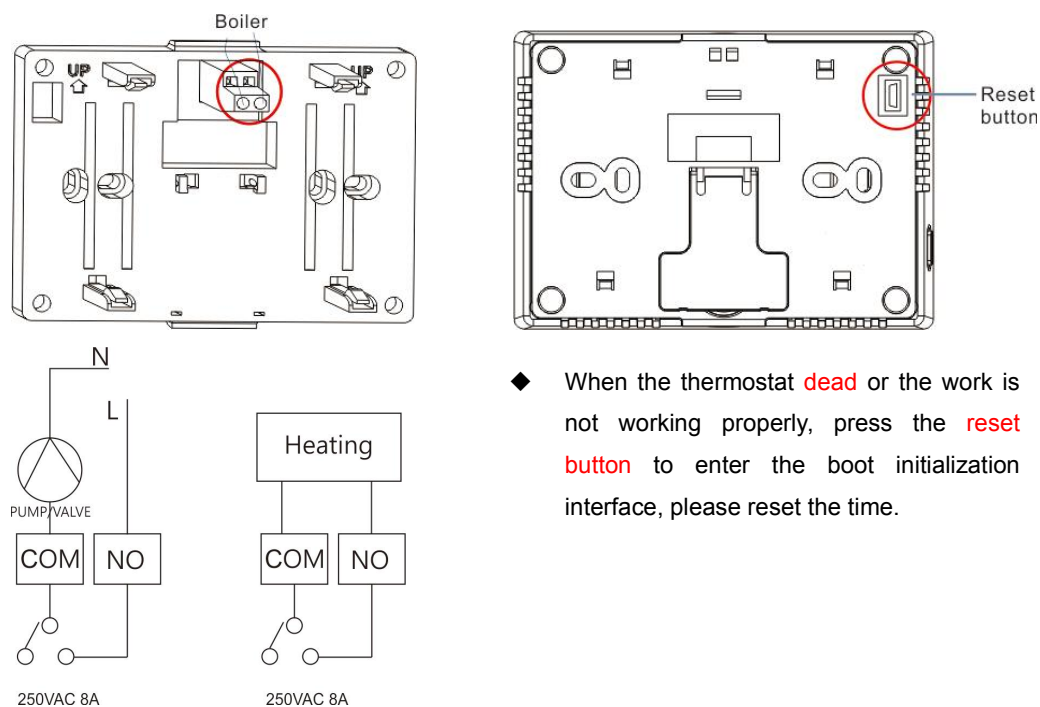
Wall installation:



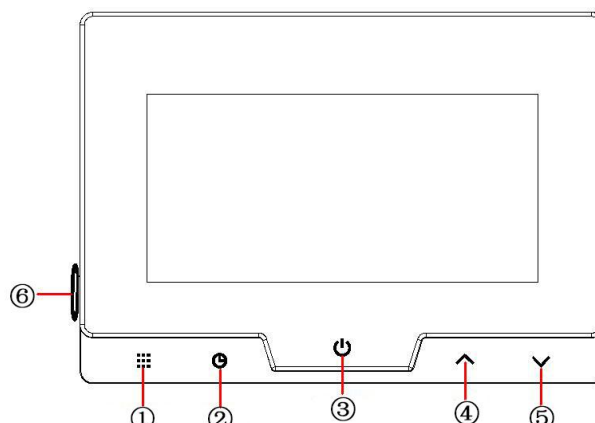
Battery installation:



WIRING DIAGRAM / RESET:



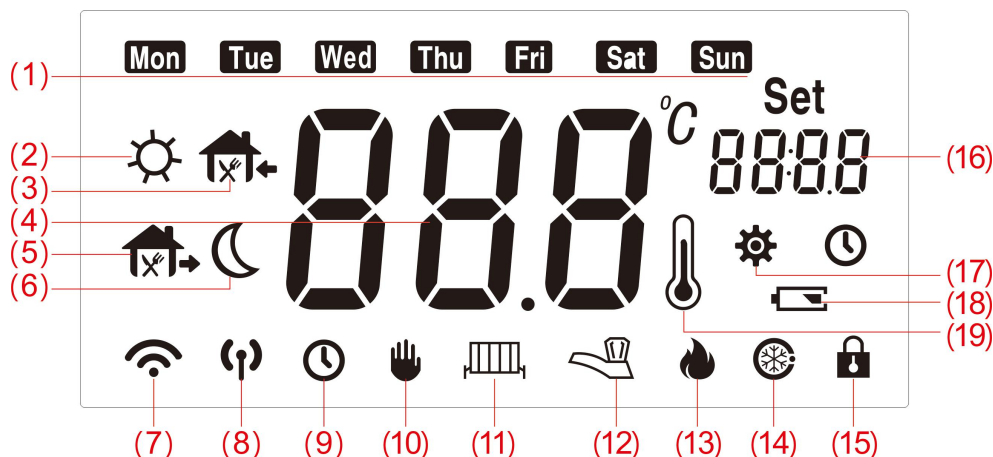
SWITCH DESCRIPTION



- 1) Menu button, switch programmable mode or Temporary hold mode
In power on and programmable mode , **Short press button is the switch key program operation and manually operation** ; Hold button more than 3 seconds to enter Program setting , press 、 to adjusting, press to exit
- 2) : Time setting button
In running mode, short press to enter switch display for temperature setting and time , press for 3s to enter time setting ,press or to switch the year ,month ,day and hour.
press 、 to adjust minute. Press to confirm and exit, short press again to enter hour adjustment, press 、 to adjust hour. Press to confirm and exit, short press again to enter week adjustment, press 、 to adjust week, Press to confirm and exit.
- 3) : power \confirm button
In setting mode(program setting mode, menu setting mode, time setting mode) short press confirm and exit. In normal boot working status, hold button for 3 seconds to turn off, In normal shutdown state, short press button to turn on. when the thermostat is in power saving (display no backlight), press button for 0.5 seconds to wake.
- 4) : Add button
- 5) : Shorten button
- 6) : wake button

Short press to light the backlight, long press to activate password lock function.

DISPLAY DESCRIPTION



- (1) : Week shows
- (2) : Time Bucket flag-Wake up
- (3) : Time Bucket flag-Back home
- (4) : OFF\ Temperature shows
- (5) : Time Bucket flag-Out home
- (6) : Time Bucket flag-Sleep
- (7) : Alternate button
- (8) : Alternate button
- (9) : Time shows、Running mode shows, (4) and (5) show at the same time means temporary mode
- (10) : Forever keeping mode shows, (4) and (5) show at the same time means temporary mode status
- (11) : Alternate button
- (12) : Alternate button
- (13) : Output shows
- (14) : Anti-freezing mode shows
- (15) : Lock shows
- (16) : Setting Time\ Temperature shows
- (17) : Setting shows(Parameters, programming, time)
- (18) : Low battery indicator shows
- (19) : Meterage shows

WINDOW-OPEN RECOGNITION FUNCTION:

When the room temperature drops by 4.5 degrees in 4 minutes, the window opening mode is automatically turned on and the heating is stopped.

When the room temperature rises by 1.5 degrees, the window opening function is automatically turned off.

You can manually restore to the previous operating mode by pressing any key. In the windowing mode, when the temperature starts to rise or the window opening function is turned on for 48 minutes, the previous operation mode is automatically restored.



PASSWORD LOCK FUNCTION DESCRIPTION:

Long press button 6 (wake button) to activate password lock function, and the screen displays “  ”, Press any button for more than 0.5s to enter the password unlock interface, select PS1, PS2, PS3 by pressing button  or  , and adjust the numbers by pressing button  or  , confirm unlock by pressing button  . If the password is correct, the key lock “  ” disappears, it will enter the operable interface. If it fails, it will automatically exit and enter the normal working interface, the key lock “  ” flashes and thermostat remain locked.

CONFIGURATION MENU SETTING

In power-off status ,hold  button more than 3 seconds enter the first of configuration menu setting. Press  、  to adjust parameters. Press  button again enter next item, press  button confirm and return to standby mode. If no button is pressed within 10 seconds, the thermostat will automatically exit configuration setting and back to standby mode.

Step	Press buttons	Displayed (factory default)	Press  、  to select	Descriptions
1		 CL (0℃)	-4℃ — +4℃	Select temperature display adjustment higher or lower
2		 AH (35℃)	20℃—35℃	Select maximum room temperature limitation
3		 AL (5℃)	5℃—20℃	Select minimum room temperature limitation
4		 bL (10)	5/10/15	Display Time: The unit is second
5		 db (0.5℃)	0.5℃~3℃	Start heating conditions: when setting temperature ≤ room temperature-0.5℃ , stop heating, when setting temperature ≥ room temperature reduction db parameters start heating
6		 Pro (OFF)	ON/OFF	Programme option ON :Turn on programming function OFF:Turn off programming function
7		 SEg (6)	4/6	Programming period in one day option 6-6 time zones; 4-4 time zones;
8		 ES (OFF)	On/ OFF	Intelligent function option ON: Turn on intelligent function OFF: Turn off intelligent function
9		 PP (OFF)	ON/OFF	Antifreeze function option ON:Turn on the antifreeze function OFF:Turn off the antifreeze function
10		 PS1(0)	0~9	Set the first digit of the password

11		PS2(0)	0~9	Set the second digit of the password
12		PS3(0)	0~9	Set the third digit of the password
13	Short press button confirm and back to programming running mode			

PROGRAMMING SETTING

Heating Schedule Plan (Factory default program setting-6 period program)

Wake up	Out door	Back home	Out door	Back home	Sleep
6:00 20°C	8:00 16°C	11:00 20°C	14:00 16°C	18:00 20°C	22:00 16°C

Heating Schedule Plan (Factory default program setting-4 period program)

Wake up	Out door	Back home	Sleep
6:00 20°C	8:00 16°C	18:00 20°C	22:00 16°C

Enter Heating Program

In programming running mode, hold button more than 3 seconds enter modify the time, choose the time which you want to set (press 、 to select the time to be modified, 7 days of unified modification, 7 days of independent modification, MON~FRI unified modification / independent modification, SAT ~ SUN independent modification / unified modification), press button again enter programming mode to set the first mode, press 、 to adjusting. press button confirm and back to running mode. If no button is pressed within 10 seconds, the thermostat will automatically exit and back to running mode. when long press button more than 4 seconds, show that DEF flash 3 times, all parameters setting return to factory default setting and return to implied parameters setting the first item

1). Press once. **Mon** (indicating Monday program) will appear in the display. Also be displayed are the currently programmed start times for the 1st heating period and the currently programmed temperature (flashing), icon indicates 1st program period (Get up) setting.

2). Press or to change the displayed temperature to your selected temperature for the 1st heating program period.

Repeat above operation and setting as user request.

OUTPUT DESCRIPTION

◆ Power off mode

when the room temperature less than 5℃ the thermostat will start Frost protection mode; when the room temperature high than 8℃,the thermostat will stop output; Any other situation has no output except these two situation

◆ Powered on mode(heating mode)

The thermostat will stop output when the room sensor broken or short cut

When Set Temperature-Room Temperature $\geq$ Temperature Difference; When Room Temperature-Set Temperature $\geq 0.5^{\circ}\text{C}$,The thermostat will stop heating output

Error warning

- 1) Low battery alarm: the low battery warning sign flicker when the battery low than 2.3V
 - 2) Room Temp (inside room Sensor) broken or short cut , the thermostat will have “room ERR”
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CUSTOMER ASSISTANCE

After reading this guide, if you have any question about the operation of your thermostat, please contact your installer or service provider.

