

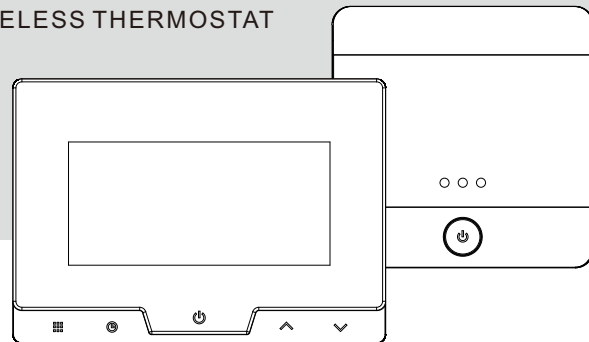
T19XWHB-7-RF(SL)

WIRELESS THERMOSTAT

Installation and operation instructions

T19XWHB-7-RF(SL)

WIRELESS THERMOSTAT



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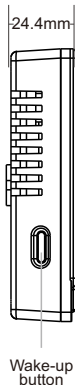
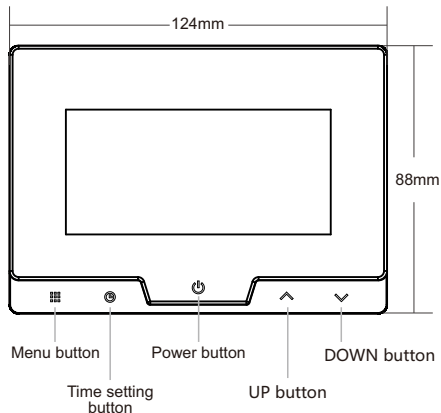
SAS2011DE wireless receiver introduction ----- 19

T19XWHB-7-RF(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: 2 or 4*AAA batteries (LR03)
- * Frequency: 868MHz
- * Temperature setting range : 5℃~35℃
- * Temperature accuracy: 0.1℃
- * Operating temperature: 0~50℃ ;
- * Humidity range:90%
- * Shipping & storage temperature: -20~65℃
- * 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

Thermostat's appearance



FEATURE:

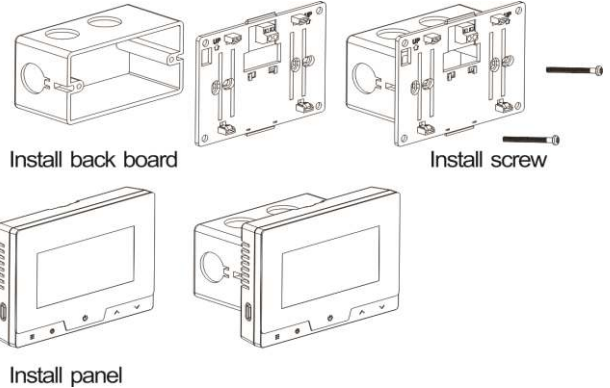
- * Can be placed anywhere in the home to detect and control the temperature of an area of the user's choice. Not limited by power control wiring locations
- * Large LCD display
- * The screen displays the set temperature and the room temperature also time simultaneously
- * Permanent user setting and 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.
- * Display temperature recalibrates
- * Low battery indication
- * Anti-freezing protection
- * Window open function
- * Password lock function

IMPORTANT SAFETY INFORMATION

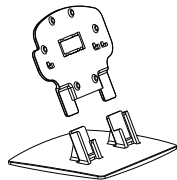
- * Always turn off power at the main power source by unscrewing fuse or switching circuit breaker to the off position before installing, removing, cleaning, or servicing this thermostat.
- * Read all of the information in this manual before installing this thermostat.
- * Only a professional contractor 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

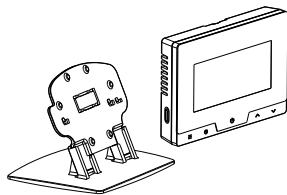
Wall installation:



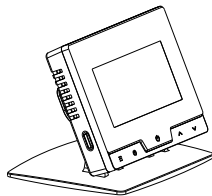
Desk installation:



❶ Insert backplane

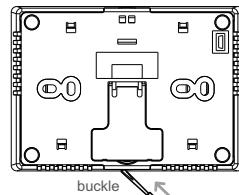


❷ Insert thermostat

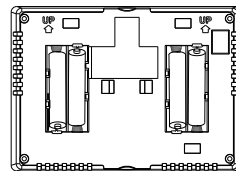


❸ completed installation

Thermostat battery installation

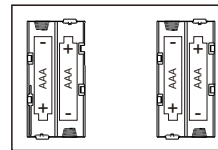


❶ Open the backplane

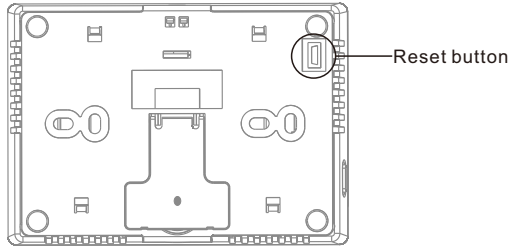


❷ Install battery then close backplane

Remind:  2 or 4*AAA batteries (LR03)

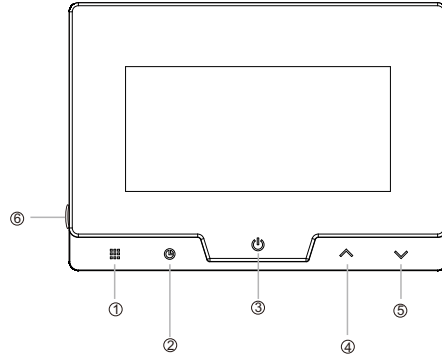


WIRING DIAGRAM / RESET:



* When the thermostat dead or the work is not working properly, press the reset button to enter the boot initialization interface, please reset the time.

SWITCH DESCRIPTION



- 1)  Menu button: switch programmable mode or Temporary hold mode

In power on and programmable mode , Short press “ button more than 3 seconds to enter Program setting, press “

08

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

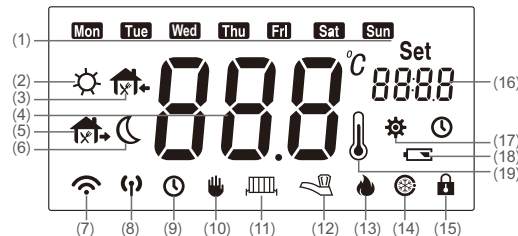
In setting mode(program setting mode, menu setting mode, time setting mode) short press confirm and exit. In normal boot working status, hold “” button for 3 seconds to turn off, In normal shutdown state, short press “” button to turn on. when the thermostat is in power saving(display no backlight), press “” button for 0.5s to wake.

4) Add button

5) Shorten button

6) Wake button:Short press to light the backlight

Thermostat 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) : Communication show (blinking indicates communication error alarm)
- (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

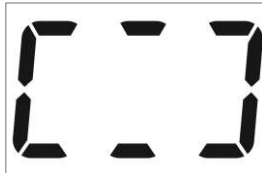
- (13) : Output shows
- (14) : Anti-freezing mode shows
- (15) : Lock shows
- (16) : Setting Time\ Temperature shows
- (17) : Setting shows(Parameters, programming, time)
- (18) : Low battery indicator shows
- (19) : Meterage shows

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 above 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 wake-up 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 the power-off state, 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°C)	-4°C—+4°C	Select temperature display adjustment higher or lower
2		AH (35°C)	20°C—35°C	Select maximum room temperature limitation
3		AL (5°C)	5°C—20°C	Select minimum room temperature limitation
4		bL (10)	5/10/15	Display Time: The unit is second

Step	Press buttons	Displayed (factory default)	Press ▲、▼ to select	Descriptions
5		 db (0.5°C)	0.5°C~3°C	Start heating conditions: when setting temperature ≤room temperature-0.5°C, stop heating, when setting temperature ≥room temperature reduction db parameters start heating
6		 Pro (ON)	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;

Step	Press buttons	Displayed (factory default)	Press ▲、▼ to select	Descriptions
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 “” 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 “” “” 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 / Error warning

Output description

Power off mode: when the room temperature less than 5°C the thermostat will start Frost protection mode; when the room temperature high than 8°C, 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

Low battery alarm: the low battery warning sign flicker when the battery low than 2.3V
Room Temp (inside room Sensor) broken or short cut, the thermostat will have "room ERR"

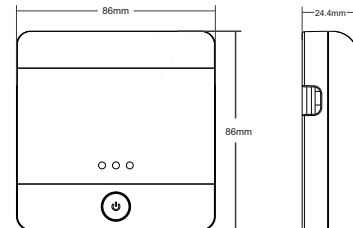
Code match

When the receiver is in code matching status. Thermostat in standby mode, pressed  for 3s and display show "RF1", then short press  to enter code match status and it will show --- , it means sending the code command. If code match successful the display will show "01", If code match failed, the thermostat will back to standby mode in 10 seconds.

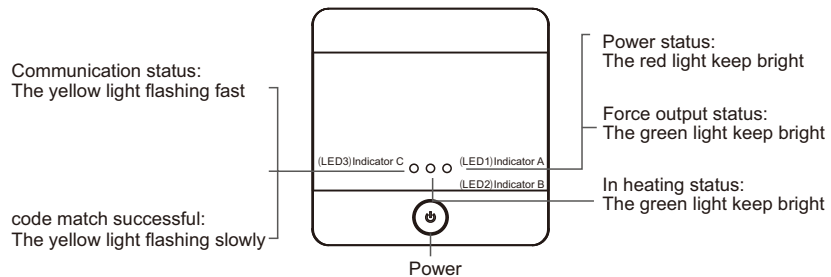
The SAS2011DE wireless receiver is one-to-one control. It is suitable for the control of electric heating equipment for electric heating and electric drive valves and wall-hung boilers for heating of water systems.

SPECIFICATION:

- * Power supply: 100~240VAC 50/60Hz
- * Frequency : 868MHz
- * Wireless transmit range: Open distance 100m
- * Ambient temperature: $-10\sim 60^{\circ}\text{C}$
- * Dimensions: 86*86*24.4MM
- * Output: Load 250V/16A, 1 open / 1 closed passive linkage (10A)



Receiver indicator status



- * Power on: Short press the power button, the indicator light A is red and keep bright, indicating that it is turned on.

- * Shutdown: In the power-on state, the indicator light A is red and keep bright. If the power button is short pressed, the indicator light A red is off .
Enter the shutdown mode, all indicators are not displayed, and stop output.
- * Working status: In the power-on state, the indicator B is green and keep bright, indicating that it is in the heating state; when the heating is stopped, the indicator B green is off .
- * Power failure memory function: In operation, after power failure and call again, it will remember the state of power on and off before power failure automatically .
- * Forced output function: In the power-off state, long press the power button for more than 8S until the green light is on, all the outputs are turned on, that is, the transmission control signal is not accepted or the emission control is damaged; in the forced output state, short press the power button again to release and go back to the shutdown state.
- * Communication signal: In the power-on state, the indicator light C flashes yellow, indicating that the incoming signal communication is entered. Blinks twice.

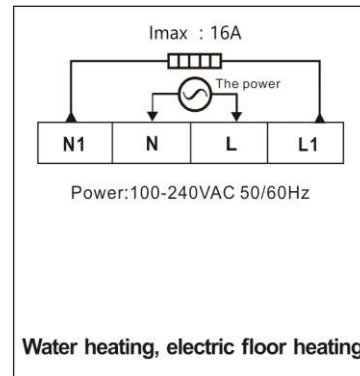
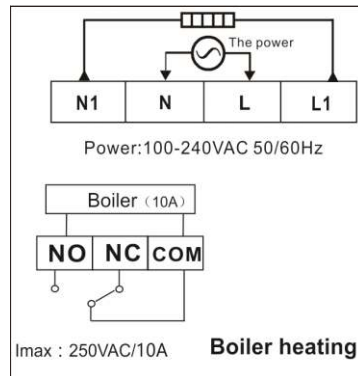
CODE MATCH METHOD :(under shutdown down status)

Working environment: Turn on the power, in standby mode, ensure that the transmitter is in the code status.

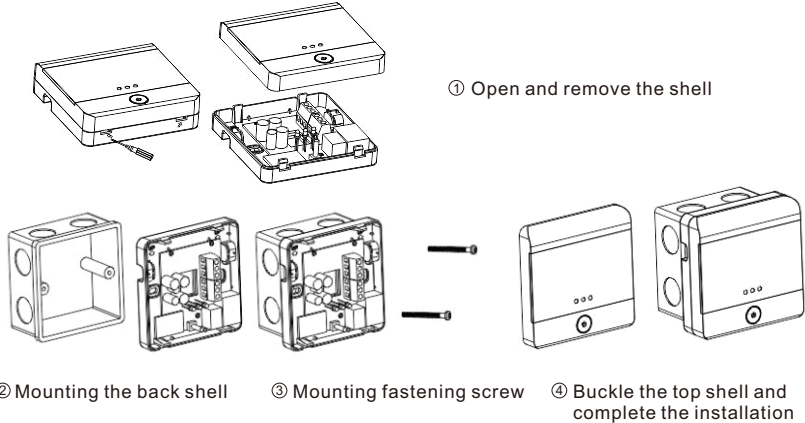
Code match status:

- 1) Press and hold the power button for more than 3s, the indicator light C is yellow and keep bright , indicating that the code is in the code status.
- 2) Press the code match key of the wireless transmitter for more than 3s to transmit the code command. If the code match succeeds, the code value is returned, and the code value flashes 3 times to indicate that the code is successful; otherwise, the code match is unsuccessful.
- 3) The code is successful, the indicator C flashes yellow, after flashing 6 times, the current setting is saved and automatically exits, returning to the shutdown state.
- 4) If the code is unsuccessful, after 20 seconds, it will automatically exit. Need to re-code.
Description: Indicator A is a red/green bi-color lamp;
Indicator B is a green light.
The indicator light C is a yellow light.

WIRING DIAGRAM :



INSTALLATION:



CUSTOMER ASSISTANCE

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