

Smart kit instruction



SAS936WHB-7-RFZ

Content

Specification	01
Program setting	04
Functions	05
Alarm instructions	07
Installation	08
Receiver status indicator	14
Pairing	15
Link APP	17
Voice conmand	37

Specification

Power supply: 2x1.5V AA alkaline batteries(LR6)

Battery life:1 year

Temperature display: 0~50°C

Temperature setting range: 5~30°C

Temperature display accuracy: 0.1°C

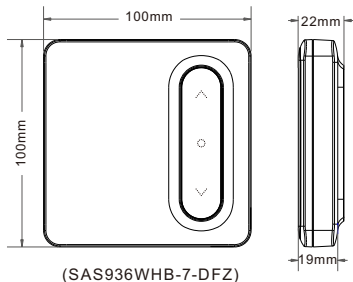
RF wireless transmit range: 100m in open air

Zigbee wireless transmit range: 30m in open air

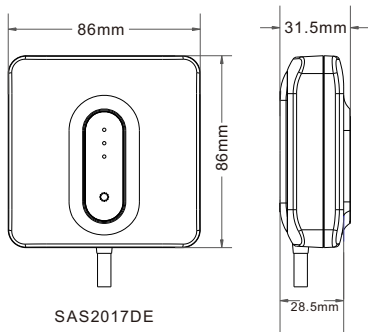
Dimensions:100*100*19mm

Storage temperature & humidity: -10~60°C, 25~90%RH (non condensation)

Operation temperature & humidity: 0~50°C, 25~90%RH (non condensation)

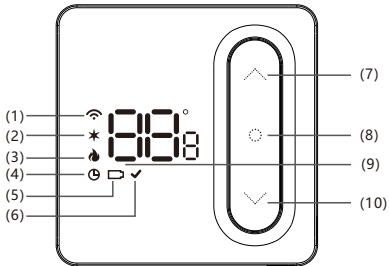


Power source: 100-240VAC 50/60Hz
Output(Relay): I_{max} 8(5)A 250VAC
RF frequency: 868MHz
RF transmission distance: 100m in open air
IP Rating: IP21
Dimensions: 86*86*28.5mm



Icons you might see on your thermostat

- (1)  Wireless icon “” always on when paired with gateway. Flash mean signal loss.
- (2)  Anti-frost icon
- (3)  Heating output icon
- (4)  Programming mode icon
- (5)  Low power alarm
- (6)  RF pairing successful icon
- (7)  Up button
- (8)  ON/OFF button
- (9) Room temperature or setting temperature display
- (10)  Down button



Program setting

- 1 Turn on the thermostat.
- 2 Press "  " could switch to programming/non-programming mode under the condition that the APP has been programmed.

Programming mode:  display. The thermostat will run according to the pre-set schedule.

Temporary mode:  keep flash. The programming will switch to programming in next schedule.

Manual mode :  disappear. It means non-programming.

Default programming (6 period programming)

					
Wake up	Away	Back home	Away	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

*Programming setting is from APP.

Functions

ON/OFF function

Press “” to turn thermostat ON. Press and hold “” again to turn thermostat OFF.

Key lock function

In main display interface, press and hold “” “” at the same time to activate or cancel the key lock, when activated, no keys can be used. The thermostat will display “”

Open window function

If the room temperature drops 1.5°C in 3 minutes, the open window function will activate and display “”, then turn down all heating. When the room temperature increases by 1.5°C or after 30minutes, the thermostat will return to normal operation. Press any button to cancel the open window function while it is active.

Anti-frost function

When user leave house for long time. The room temperature will drop to lower which it may freezing home device may effect damage. Thermostat will turn on heating when room temperature drop to lower 5°C. And turn off heating when temperature rise to 8°C.

Geofencing function (Only for IOS)

When it detect no one at home, thermostat will turn off heating to save energy. User could set all setting through APP.

Optimum start

The optimum start adjust the starting time for home heating according to user program setting. User program the time that it should come on desired temperature in correct time.

Optimum stop

Optimum stop save energy by switching the boiler off earlier than program off time.

Weather compensation

Connect with external sensor with select to weather compensation mode. It will detect outside temperature and compare room temperature to switch on/off boiler to save energy.

Temporary leaving mode

From APP it could activate when user leave house for long time.

Boost function

When user feel house is not enough heat. It could activate boost to heat with option from 1-9 hours.

OTA

It could remote control software upgrade.

Low power alarm

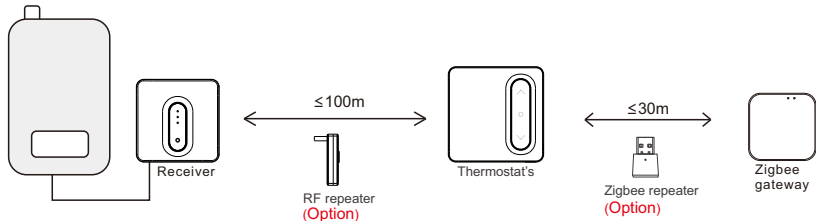
When thermostat is out of battery, it will alarm "  " to remind user change battery.

Alarm instructions

Err.display	Result
E1	Internal sensor malfunction.
E2	External sensor malfunction.
E3	The communication between the thermostat and the receiver is disconnected.

Installation location

The receiver (SAS2017DE) need to be installed in the boiler signal area, SAS936WHB-7-DF transmitter can be put wherever you want.



* If you don't have repeaters, thermostat and receiver's distance can't over 100m in the open area, and the thermostat and gateway distance can't over 30m in the open area.

Worry about the Transmission distance?

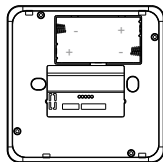
You can choose a RF repeater or Zigbee repeater to expand wireless signal coverage.

RF repeater extended distance: about 100m in open air.

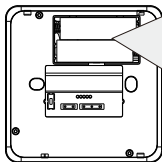
Zigbee repeater extended distance: about 30m in open air.

Thermostat Installation

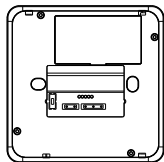
Battery installation (SAS936WHB-7-DF)



Take off cover



Install 2AA batteries

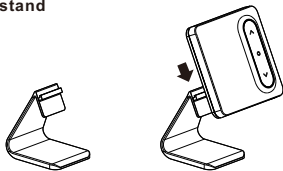


Complete installation

Attention: Insert the batteries checking the polarities (+ / -) are correctly aligned.

Desk stand

1



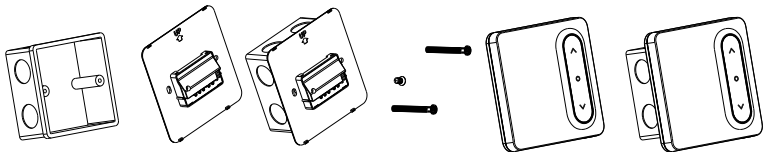
Hang transmitter on stand



Completed installation

Wall mount

2



① Put the back board on the installation box

② Put the screw into the hole and screw down

③ Cover the panel

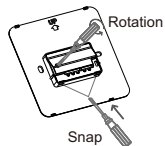
④ Installation complete

Thermostat wiring

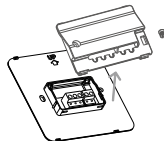
Sensor(Optional)



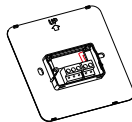
- ❶ Unscrew the terminal cover and pry the buckle with a screwdriver.



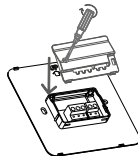
- ❷ Take off the safety cover.



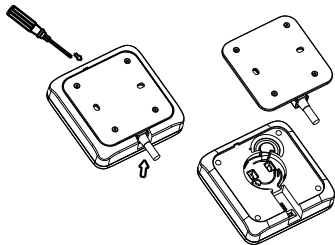
- ❸ Wiring connection.



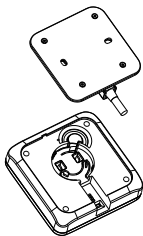
- ❹ Install the safety cover, do the protection.



Receiver Installation



1 Open back plate upwards



2 Install and fasten screws on wall



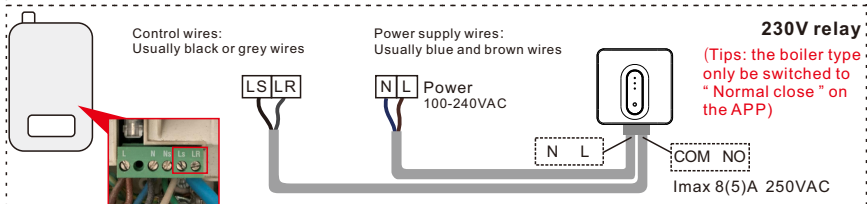
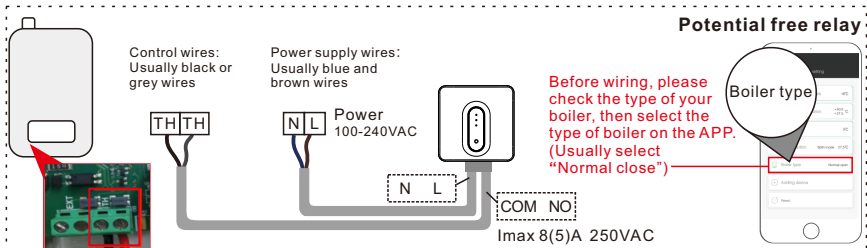
3 Snap into display part



4 Completed installation

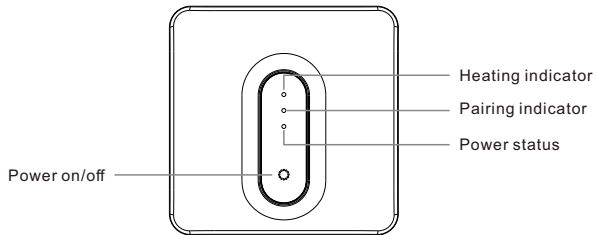
Receiver wiring

* Turn off power of your house, then open boiler board and connect the signal wire.



This DIP switch on the back of the receiver need switch to "RF1"

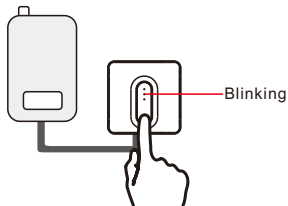
Receiver status indicator



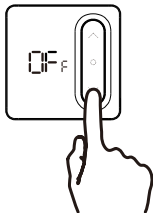
- ✱ **Activate force output:** in shutdown status, press and hold "○" until heating indicator lights up. It will manually force heating boiler if transmitter damaged. Press "○" again to cancel.

Pairing the transmitter with receiver

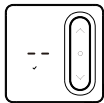
- ① When the receiver is powered on, press and hold "○" for 3s, the pairing indicator flashes quickly.



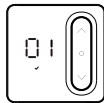
- ② Thermostat in OFF mode, press "∨" to enter pairing status.



- ③ Show "--", "✓" flash, it means sending the code command.



- ④ Show "01", "✓" keep on, it means pairing successful.

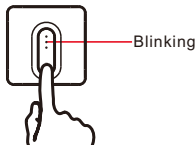


Blinking 3 times
(Pairing successful)

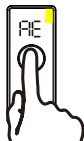
RF repeater pairing(Optional)

1. Pairing with receiver (Receiver pairing must be done before pairing the transmitter)

a When the receiver is powered on, press and hold "O" for 3s, the pairing indicator flashes quickly.



b Press and hold button 3s, display "AE", the Yellow light flash 3s.



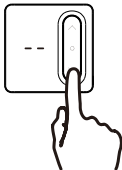
(Pairing successful)
Green light and "AE"
flash 3 times.

2. Pairing with transmitter

a Repeater: Press and hold button 6s, display "CO"

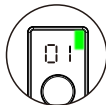
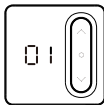


b Thermostat: In "OFF" state, press "V", display "--"



* Press and hold the button until it flashes "188" 3 times to reset factory setting.

c If pairing successfully, display the corresponding ID number and repeater Green light keep on for 3s. Then enter the second device for code pairing, and so on.



Download



① Click App store(click Android application market)

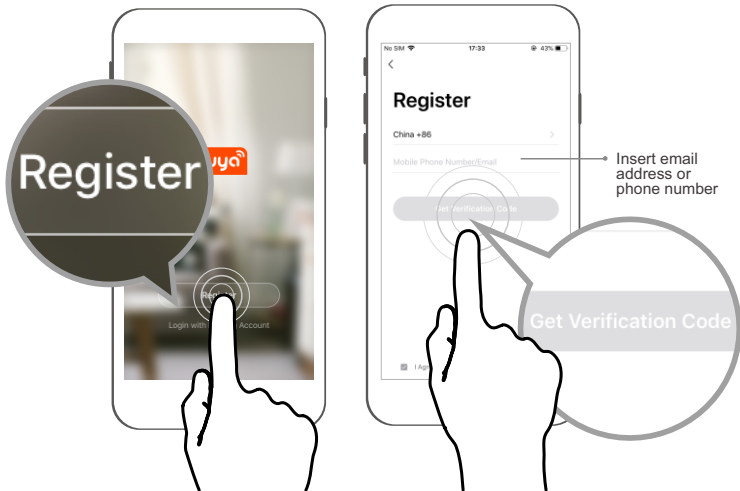


② Search “ TuyaSmart ” and download .



Link APP

Register

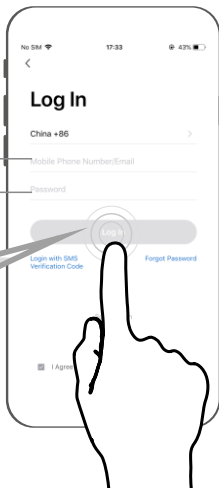


Login

When you finish the register, log in your mailbox and click on the link to activate your account, then can login APP.

Registered mailbox /phone number

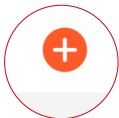
Insert your password



Add gateway

Gateway: optional purchase

- 1 Enter the "HOME" interface of the app, Click the "+" in the upper right corner .



- 2 Click the list bar "Gateway Control ", select the Gateway (Zigbee) in the right device list.

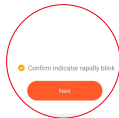


Tips: if your gateway is wired,
please click " Gateway(Zigbee) "

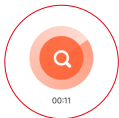
- 3 Enter your wifi account and password
Click "Confirm"



- 4 Make sure the red light is blinking fast.
Click "Next"



- 5 Wait a few seconds until the search progress is 100%



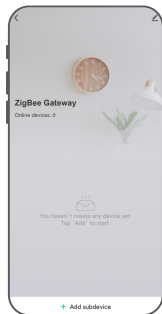
- 6 Click "Done", it means the gateway added successfully.



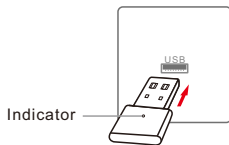
* Tips

- Before binding the gateway, you need to power on the gateway.
When binding a gateway, the mobile phone and the gateway must connect to the same network.

Add zigbee repeater (Option)



❶ Click "+ Add subdevice"



After the device is powered on, plug and unplug it three times to enter the network configuration state, and confirm that the indicator light flashes.



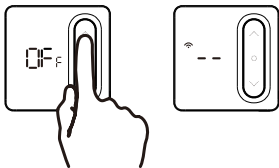
❷ Click "LED already blink"



❸ Click "DONE"

Add thermostat

- 1 For thermostat: In “OFF” state, long press “” until the screen show “--”, “” flash .



- 2 Click “Add subdevice” to enter the device list.

 Add subdevice

- 3 Click “LED already blink ”

re device reset meth

LED already blink

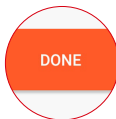
4 Search device



5 Select the type of device you want to add .



6 Click "Done", it means the TRV added successfully.



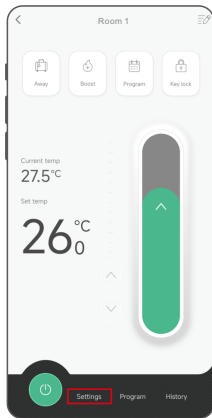
* Tips

- Gateway must be added before adding thermostat.

Add receiver

Tips:

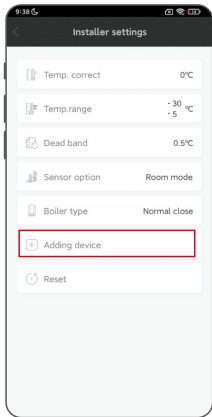
Generally, the receiver has been added by default in the factory settings, so there is no need to follow the steps below to add the receiver.



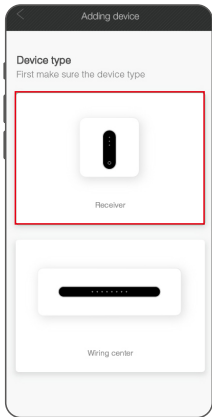
① Click "Settings" in the home page of thermostat.



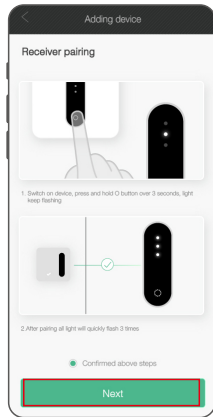
② Click "Installer settings"



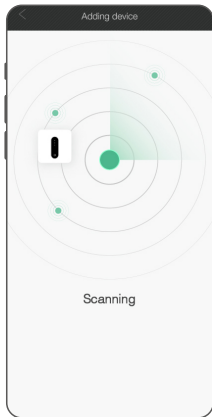
③ Click “Adding device”



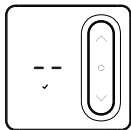
④ Select “Receiver”



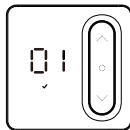
⑤ Select “Confirmed above steps”, Click “Next”



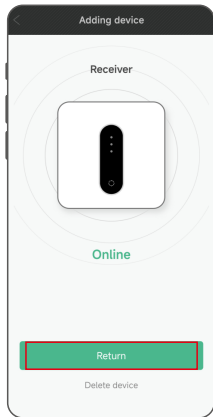
6 Scanning



When pairing,
the thermostat
will display "--",
"✓" flash.

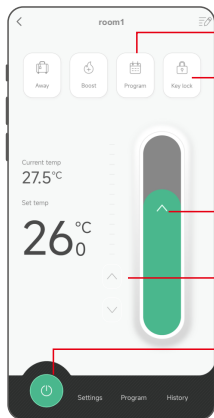


If successful,
display "01",
"✓" keep on.



7 Add successfully,
click "Return"

APP interface introduction



Click the icon to open programming function, and the icon "📅" will turn green

Click the icon to open the key lock function, and the icon "🔒" will turn green

Slide to adjust temperature

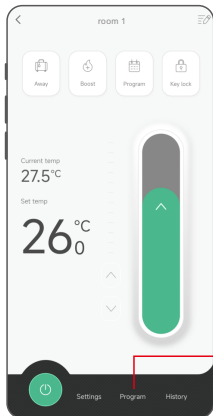
Press "▲", "▼" to adjust the temperature.

Click to power off



Click to power on

Programming Setting



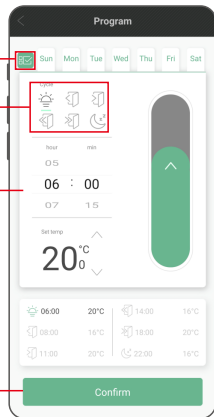
Click to select week you want to copy

Click here to select different periods, press “^” “v” or slide “” to set temperature.

Slide to adjust time

Click “program” to enter the programming interface for selecting the time of 7-day programming.

Click “Confirm” to save



Temporary leaving mode

Temporary leaving mode:

If you need to stay out temporarily, please click the button,

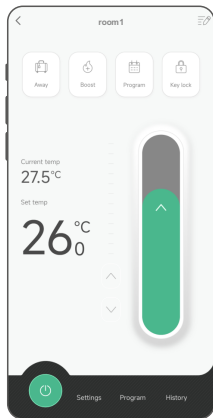
The temperature can remain at 16°C, the energy-saving

icon “” turns green and is on. After your arrival at home,

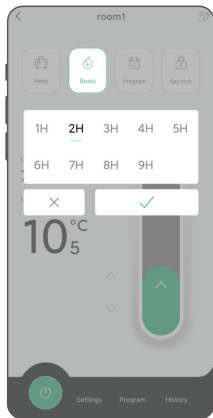
click the button again to recover the previous temperature setting.



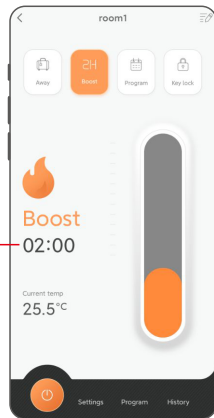
Boost setting



① Click the icon “”



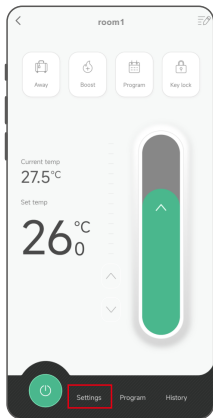
② Select the time, then click “” to confirm



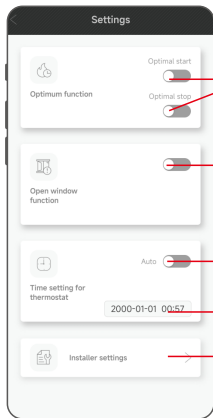
Countdown time — 02:00

You can check the boost time

More settings



Click “Settings” to set parameters



Swipe right to turn on “Optimum” function, and the icon  turn green

Swipe right to turn on “Open window” function, and the icon  turn green

Swipe right to turn on “Auto time” function, and the icon  turn green

Click to set the time manually

Click to set implicit parameters

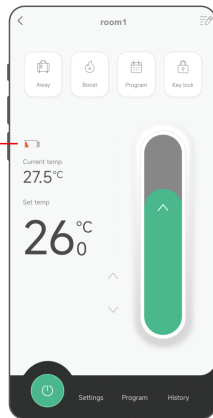
Anti-frost function



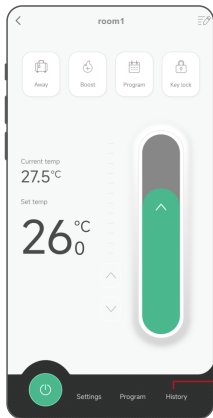
When the room temperature is lower than 5°C, the anti-frost protection is automatically activated.

Low power alarm

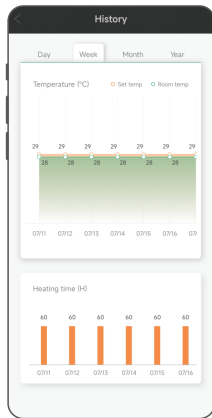
Low power alarm



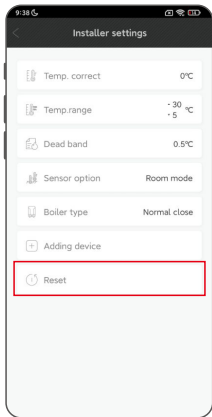
History records



Click "History" for checking the historical temperature records



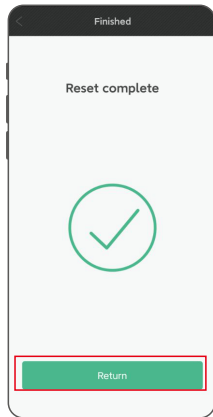
Reset setting to factory default



- ① Click "Settings" in the home page of thermostat, then click "Installer settings", click "Reset"

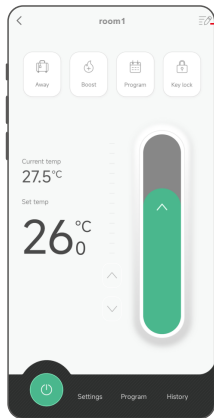


- ② Tick "Already confirm above notice", click "Reset"

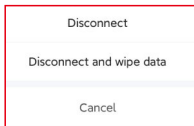


- ③ Click "Return" to return back to main control page

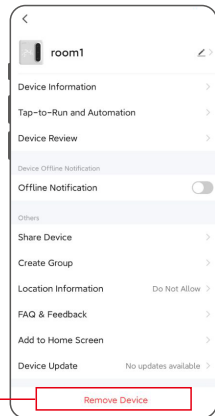
Remove device



Click here to check the device information



Click "Remove Device" to select "Disconnect /Disconnect and wipe data/Cancel"



Voice command

After waking up the speaker, you can say:

Amazon Alexa

- * turn on <device name>
- * turn off <device name>.
- * what is the temperature of <device name>.
- * make it warmer in <device name>.
- * make it cooler in <device name>.
- * set <device name> to twenty.

Google Assistant

- * turn on <device name>.
- * turn off <device name>.
- * set <device name> to 16 degrees.

- * The temperature unit of thermostat and speaker must be the same.
- * Tips: you need connect to the Google and Alexa speaker.

Smart kit instruction

【SAS936WHB-7-RFZ】