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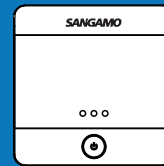
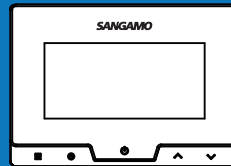
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••••• Company

SANGAMO

CHOICE RSTATWIFI OPERATING INSTRUCTION



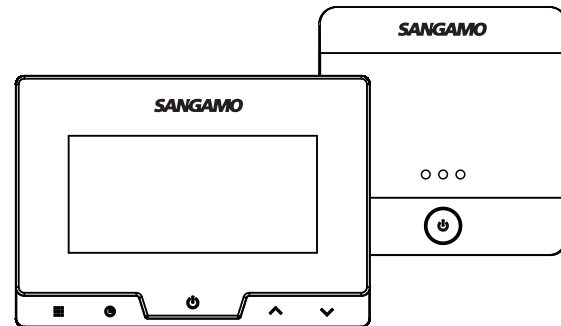
www.espuk.com

The latest ESP manuals
can be found Online:



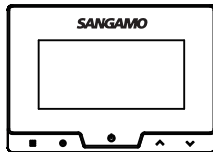
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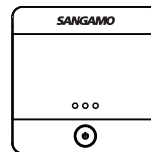
The CHOICE RSTATWIFI is designed to be used with electric, gas or oil heating systems. The receiver is to be installed nearby the boiler/furnace to operate the call for heat. The thermostat is to be installed in the position best suited to monitor the environment's temperature.

Specifications



Thermostat

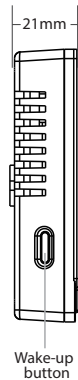
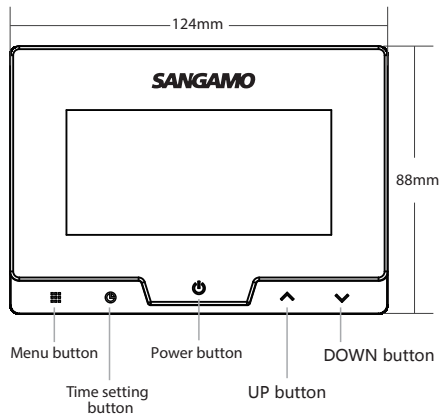
- Power source : 4 AAA batteries (Wi-Fi unavailable)
AC 100-240V 50/60Hz
- IP Rating : IP21
- Temperature setting range : 5°C~35°C
- Temperature setting accuracy : 0.5°C
- Temperature display range : 5°C~50°C
- Temperature accuracy : 0.1°C
- Operation temperature range : 0~50°C
- Shipping & storage temperature : -10°C ~ 60°C
- Frequency : 868MHZ(Bidirectional FSK)
- Wireless transmit range : 100M
- WiFi Communication protocol : TCP/IP, MQTT
- WiFi frequency : 2.412GHZ-2.484GHZ



Receiver

- Power source : 100-240VAC 50/60HZ
- IP Rating : IP21
- Operation temperature range : 0~50°C
- Shipping & storage temperature : -10°C ~ 60°C
- Output : Relay Load 250v/16A ,standard 16A,
Volt-Free switch systems (0.5A)
- Frequency : 868MHZ (Bidirectional FSK)
- Wireless transmit range : 100M

Thermostat's appearance



Thermostat power mode

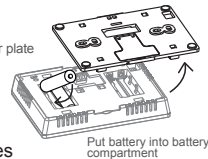
If the thermostat is only powered with batteries, the Wi-Fi function will be disabled. But will function as a conventional wirefree thermostat. In addition to the batteries, for Wi-Fi function the thermostat requires permanent power via mains supply (NO.2) or USB (NO.3).

NO. 1

Open back cover plate



4 AAA batteries

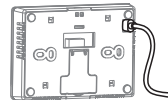


NO. 3



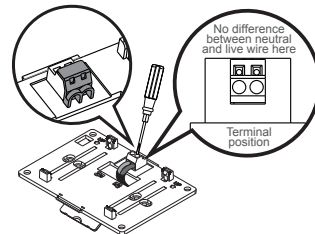
Micro USB

Use phone charger to access the USB connector



NO. 2

1. Take off the safety cover when wiring

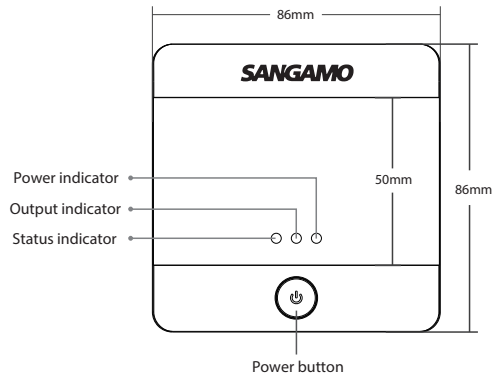


2. Cover the protective cap after the terminals connected neutral and live wire



Wire electric power

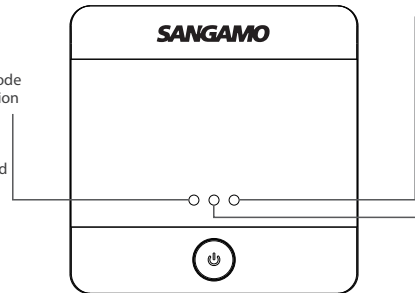
Receiver appearance



Receiver indicator status

Matching Code Indicator

- Flashing Amber: Code matching registration activated
- Steady Amber: Receiver is matched



Power LED Indicator

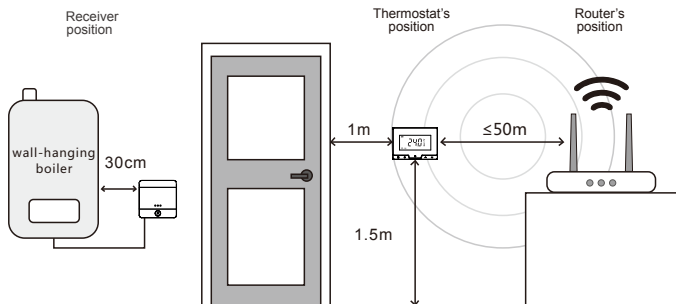
- Steady Red: Power supply is on
- Steady Green: Manual call for heat activated

Call for Heat Indicator

- Steady Green: Call for heat activated

installation position

When installing, the distance between router and thermostat should within 50M
(adjust the distance according to actual network cover)



Note

The unit is designed to be used with electric, gas or oil heating systems.

The receiver is to be installed nearby the boiler/furnace to operate the call for heat. The thermostat is to be installed in the position best suited to monitor the environment's temperature.

- The open field distance between the receiver and thermostat is 100meters, this is an RF signal.
- If the thermostat has been fitted with a permanent mains supply, the user can control the room temperature via mobile phone APP, this is via a Wi-Fi signal to the network's router.

In both cases please ensure that the signal is not compromised prior to installation. Types of building materials, potential signal dead zones and the working environment needs to be assessed.

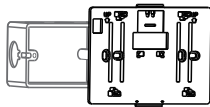
If Wi-Fi signal is a possible issue, one solution is the numerous Wi-Fi signal enhancing devices on the market to improve a network's performance.

As with all Wi-Fi, software and hardware depended devices, ESP are unable to guarantee that every device will be compatible with the supplied product and software.

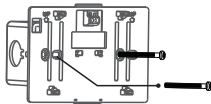
Specific models of phone, tablet or other devices, the hardware it contains, the service provider, the types of data services offered and variations in version numbers can affect the performance.

Thermostat Mounting Installation

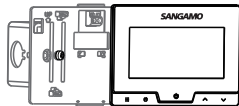
- 1 put the back board on the installation box



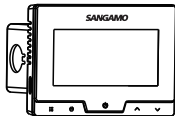
- 2 put the screw into the hole and screw down



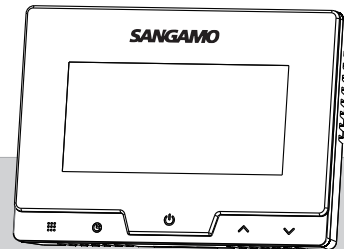
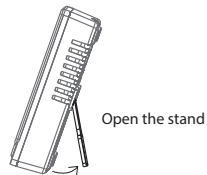
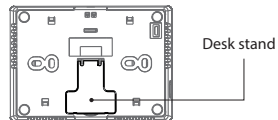
- 3 Cover the panel



- 4 Completing installation



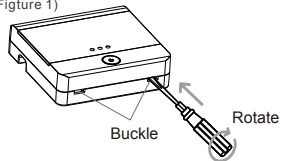
Thermostat table stand



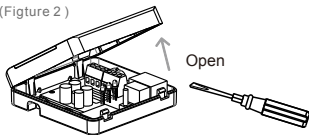
Receiver installation

- 1** Open receiver's panel
Pry the Buckle with a flattened screwdriver

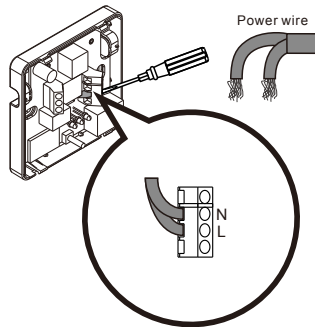
(Figure 1)



(Figure 2)



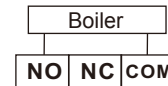
- 2** wiring: put the wire into the terminal and use the straight screwdriver to screw down



Receiver Wiring Diagram

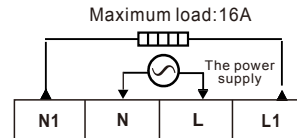
Refer to the boiler's manual or support for the appropriate connections.

Connection A) For systems requiring a volt-free switch



Max: 250VAC/0.5A

Connection B) For systems that require a Live switch



Power:100-240VAC 50/60HZ

Test

Checking the Power Supply to the Receiver

When the receiver's supply and connections to the boiler have been established, press the receiver's power button once and the red LED will indicate the supply is present.

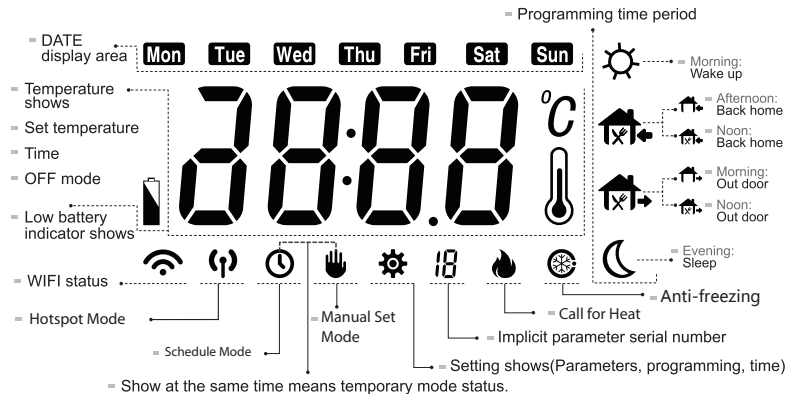
Checking the Receiver's Boiler Connections

Press the power button once more so that no status LEDs are active, press and hold the power button until the 2 status LEDs display green (Approx. 10secs).

This process will manually trigger the switch to the boiler. If the boiler does not trigger please review the connections and refer to the boiler's manual or support.

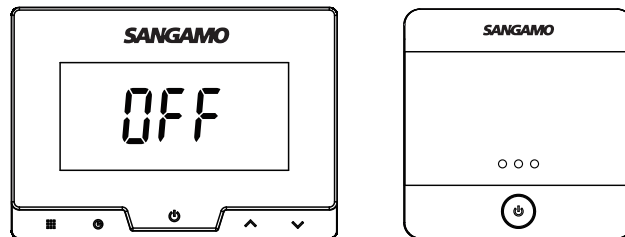
After installation is complete and a circumstance arises where the heating needs to be triggered without the thermostat, the receiver is able to manually trigger the boiler using the above process.

Display description



Matching the Thermostat to the Receiver

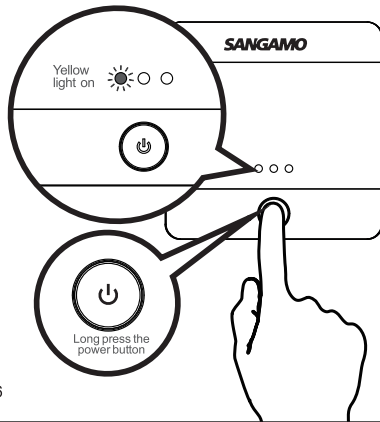
The thermostat and receiver are supplied as matched.



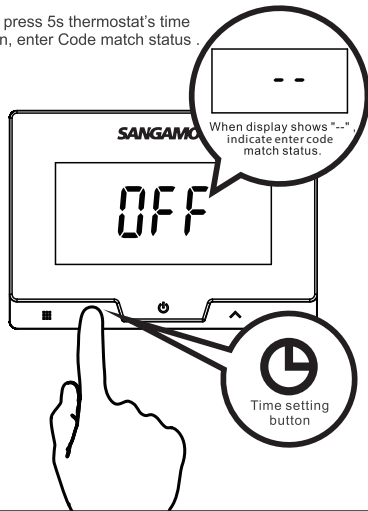
To start registration mode; long press the power button on the thermostat and on the receiver, press the power button until there are no status LEDs.

Code match

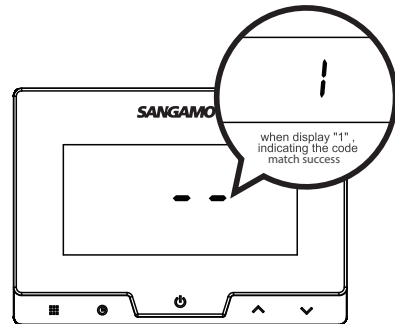
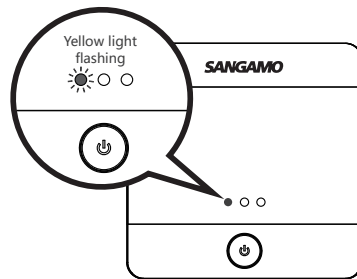
- ① Long press the power button of the receiver until the yellow light on, indicate enter code match status.



- ② Long press 5s thermostat's time button, enter Code match status.



- ③ The receiver's yellow light flashing and the thermostat display "1", indicating code match success.



Download



1 Open APP/ PLAY store



2 Search :
SANGAMO CHOICE

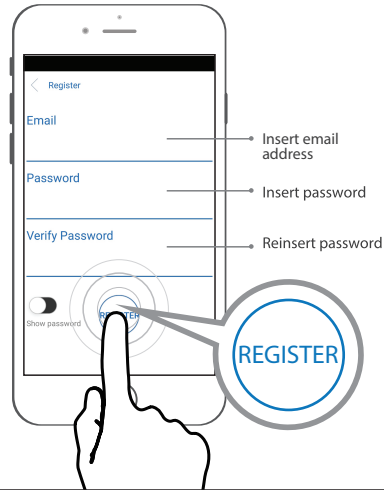
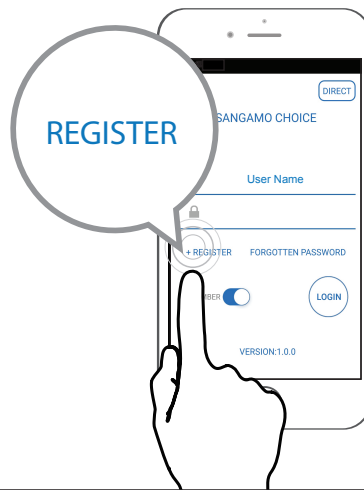


3 Install APP



4 Open APP

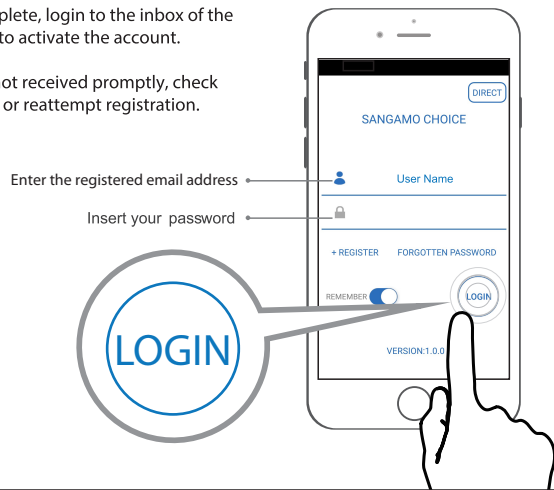
Registration



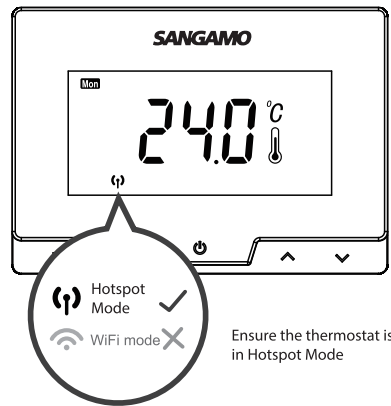
LOGIN

When registration is complete, login to the inbox of the email address registered to activate the account.

If the activation email is not received promptly, check sub folders (such as junk) or reattempt registration.



Thermostat Hotspot mode

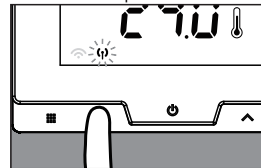


Enable the 'Hotspot' mode on the thermostat.

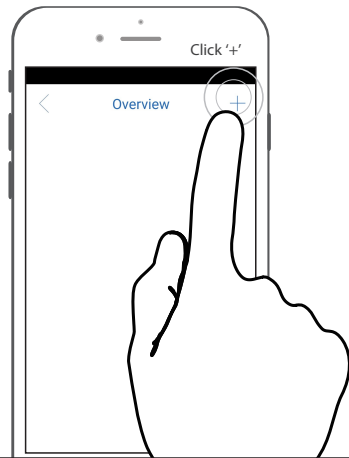
The Hotspot will enable the user to access the thermostat settings to add the additional network information required for complete remote connectivity.

* Attention

Press the  5 seconds enter the Hotspot Mode



Add the thermostat in IOS



1 Return to phone's setting



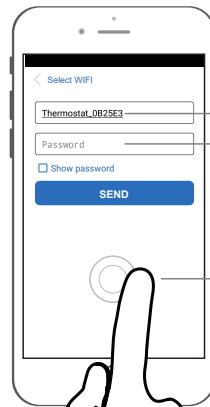
2 Click "Wireless Local Area Networks"



3 Choose the SSID
(The SSID is printed on top of the thermostat)



4 Reopen APP



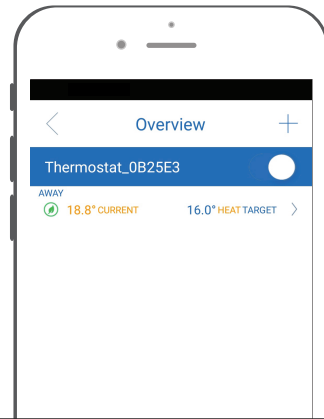
5 Follow the steps below:

Select the Wi-Fi network which the thermostat is to be added

Insert the network's Wi-Fi password

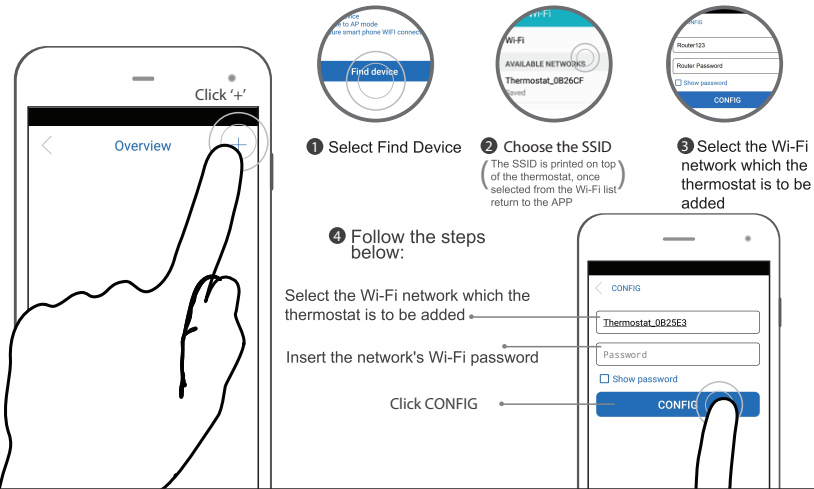
Click SEND

6 The connection will automatically establish between the thermostat and the network. Thermostat settings will now be available via the APP.

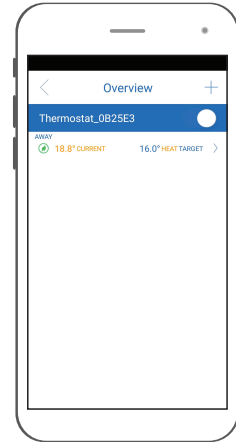
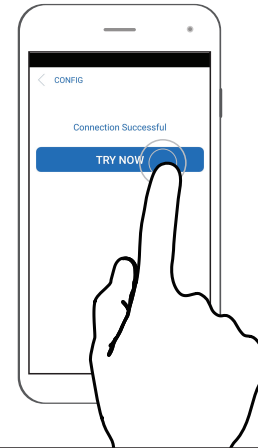


Add the thermostat in Android

24



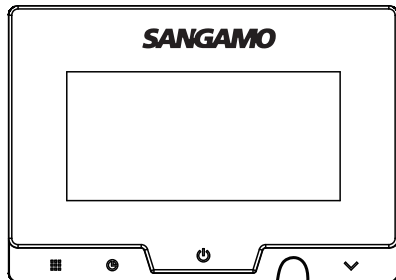
- 5 When successful with configuration, click try now, then enter the overview interface



25

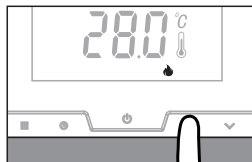
Temperature Setting

Press \wedge \searrow to adjust the temperature



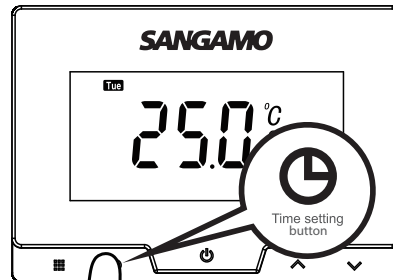
* Reminder

When the set temperature is higher than the room temperature, the thermostat activates the call for heat \heartsuit



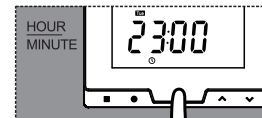
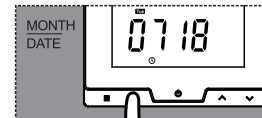
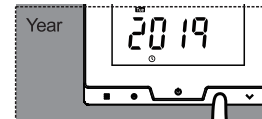
Programming - time setting

- 1 In running mode, ⌚ press enter time setting mode



- 2 Short press " ⌚ " enter switch of year month/date hour/minute, press " \wedge \searrow " to adjust minute, hour, week.

All programming can be completed on the APP, other than the time and date setting. If the thermostat is powered down, then all settings will be retained including network settings



Programming

1. Select programming rules

5+2
Day
programming

Setting for two time periods in a week. Monday to Friday and Saturday to Sunday.

7 individual
Day
programming

Setting the seven time period in a week, setting the different time period from

5+1+1
Day
programming

Setting for three time periods in a week. Monday to Friday, Saturday and Sunday.

2. Select programming periods

4
PERIODS

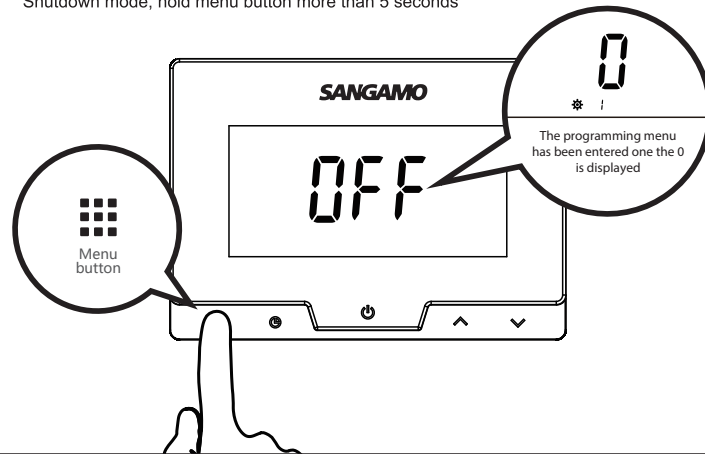
Programming with 4 temperature periods within a day

6
PERIODS

Programming with 6 temperature periods

Programming – opening week programming

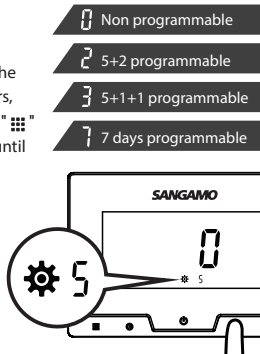
- 1 Enter the thermostat programming menu
Shutdown mode, hold menu button more than 5 seconds



2 Select the programming mode

a. After entering the implied parameters, continue to press "☐" to toggle screen, until see the "⚙ 5".

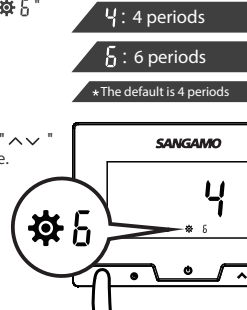
b. Press "^v" to choose.



3 Select the programming period

a. Press "☐" to toggle screen, until see the "⚙ 6".

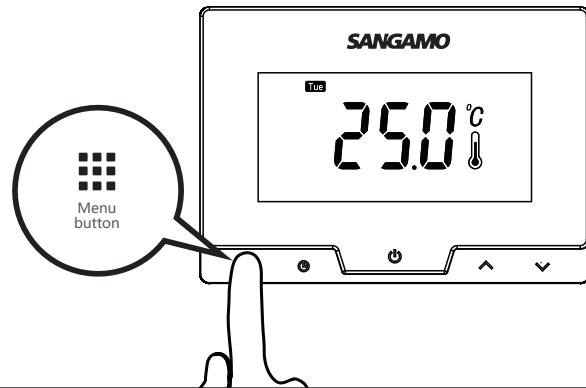
b. Press "^v" to choose.



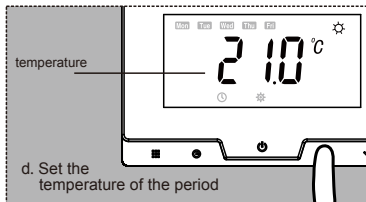
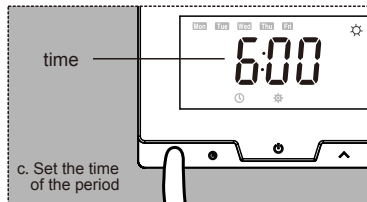
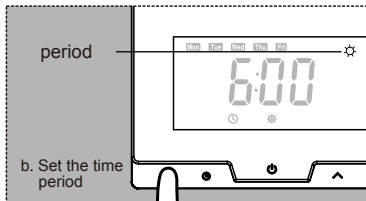
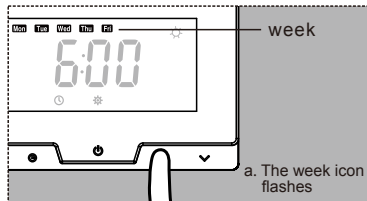
4 After setting, press "⏻" save and exit.

Programming – set the week programming

- 1 Enter programming settings:
In running mode, hold menu button "☐" more than 5 seconds.



- ② Short press "⏏", switch the time and temperature of the week and period. When the icon is flashing, press "▲▼" to choose.



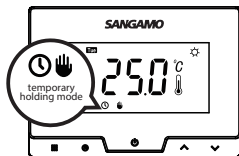
- ③ The icon "☀" indicates the start and the icon "🌙" indicates the end., the start time and temperature are set for each period of the week, If you are not at home, the middle of the two periods do not need to setting.

Morning	Morning	Noon	Noon	Afternoon	Evening
Wake up	Outdoor	Back home	Outdoor	Back home	Sleep

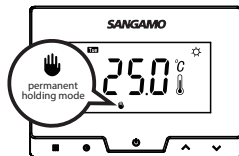
REMIND: If you choose 4 periods programming, the noon time period will not be displayed.

- ④ After setting, press "⏏" save and exit.

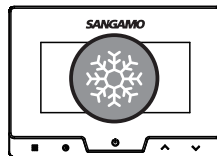
Remind



1 The user can temporarily override the programmed set temperature by using the 'Up' and 'Down' arrows, until the next programmed event occurs.



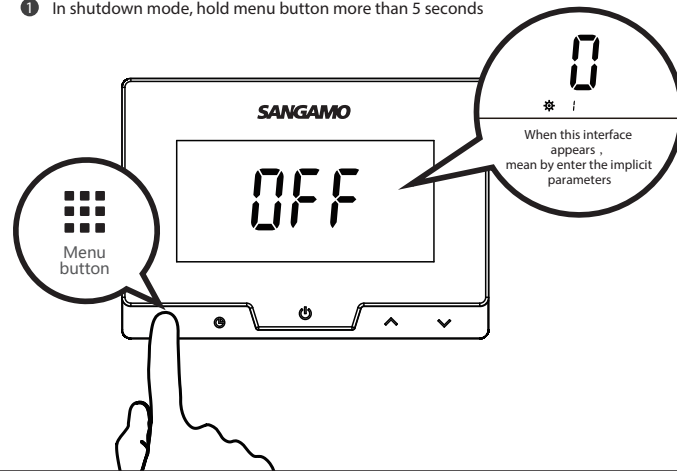
2 The user can permanently override the programmed set temperature by using the 'Up' and 'Down' arrows and pressing the 'Menu' button. To reinstate the programming mode, the 'Menu' button is pressed again.



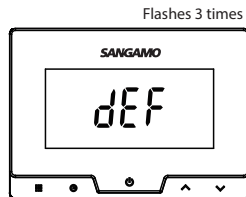
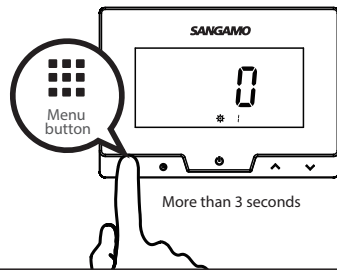
3 The thermostat has an automatic frost protection feature. As default this is set to 5°C, if this temperature is reached the thermostat will action a call for heat.

Thermostat configuration

1 In shutdown mode, hold menu button more than 5 seconds



- ② Enter the first of configuration menu setting. Press " ^ v "to adjust parameters. Press " ■ "button again enter next item, press " ⏻ "button confirm and return to shutdown mode.
- ③ If no button is pressed within 10 seconds, the thermostat will automatically exit the configuration menu setting and back to shutdown mode.
- ④ In the menu setting, press the menu button for 3 seconds until DEF flashes 3 times. The thermostat will return to factory default mode.



Thermostat configuration menu layout

Press buttons	Displayed	Settings	Press ^ v to select	Descriptions
■	⚙ 1	Temperature correction value	-4 — +4	
■	⚙ 2	Temperature setting upper limit	24°C—35°C	
■	⚙ 3	Temperature setting lower limit	5°C—20°C	
■	⚙ 4	Control accuracy	0.5°C~5°C	Start heating conditions: • When setting temperature ≤room temperature-0.5 °C, stop heating • When setting temperature ≥room temperature reduction db parameters start heating
■	⚙ 5	Programming mode selection	0/2/3/7	0: Non programmable 2 : 5+2 program 3: 5+1+1 program 7: 7 days program
■	⚙ 6	Programming period selection	4/6	6: 6 time zones ; 4: 4 time zones ;
■	⚙ 7	Antifreeze protection function	On/ OF	On : Frost protection on ; OF : Frost protection off
■	⚙ 8	Display time	10/15/20	