



# Sangamo

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## CHSTAT3CHK

Sangamo 3Ch Programmable Thermostat with RF and WiFi  
White



Manual



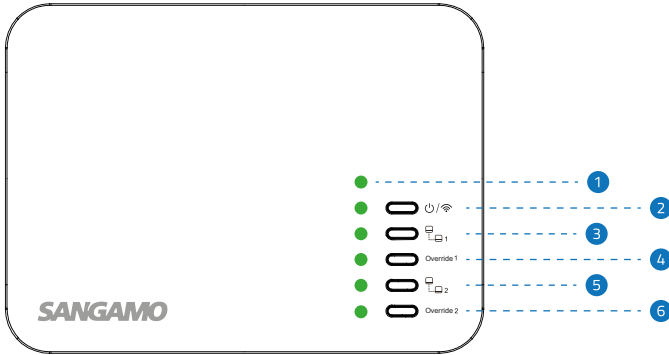
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# Functions

- Access and control 2 heating zones and 1 hot water zone via WiFi
- Large display for easy viewing
- Easy to install thermostat(s) and receiver
- Five touch-sensitive buttons for easy usage
- 6 on & off periods per day
- The display shows the set temperature, as well as the measured temperature and time
- Temperature(s) display in Celsius
- The thermostat(s) are supplied with a wall-fixing mount, a free-standing base, and a compact receiver (surface mount only)



## 1. Receiver overview & thermostat pairing

- LED:** Receiver on/off indicator.
- LED:** WiFi status / WiFi pairing button.  
**Button:** Short press to turn the receiver on/off, long press for WiFi pairing.
- LED:** Heating status of Thermostat 1.  
**Button:**
  - 3.1. Press to enter code pairing mode for Thermostat 1, the LED will flash quickly
  - 3.2. Turn off Thermostat 1, and long press the M button until the code shows on the screen, and then press the  button.
  - 3.3. Wait until the LED has stopped flickered, once it has the code pairing has been successful, and  shows on the screen
- LED:** Override status of Thermostat 1.  
**Button:** Press and hold to enable override, press again to disable override.
- LED:** Heating status of Thermostat 2.  
**Button:**
  - 5.1. Press to enter code pairing mode for Thermostat 2, the LED will flash quickly
  - 5.2. Turn off Thermostat 2, and long press the M button until the code and  shows on the screen, and then press the  button.
  - 5.3. Wait until the LED has stopped flickered, once it has the code pairing has been successful
- LED:** Override status of Thermostat 2  
**Button:** Press and hold to enable override, press again to disable override.

*Note: Kits come supplied pre-paired, if one or more thermostats need pairing to the gateway, follow the above steps.*

## 2. Wi-Fi configuration

### Preparation

1. Ensure that the smart phone is connected to the same Wi-Fi network that you would like to attach the device.
2. Ensure that you have a mobile device running iOS 8 or higher, or Android 4.1x or higher, and a 2.4GHz Wi-Fi connection.
3. Download the ClickSmart+ App on your mobile device from the App Store or Google Play Store.
4. Sign in or Register following the instructions on the ClickSmart+ App.

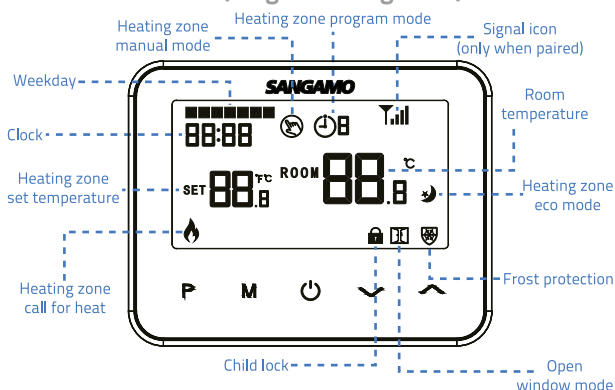


### Installation Instructions

1. On the ClickSmart+ app's home page, click on the '+' symbol in the top right corner of the home screen.
2. Then click on 'ESP' on the left handside.
3. And finally click on 'Smart WiFi 3Ch Programmable Thermostat Kit'.
4. The app will then display on screen instructions for pairing the CHSTAT3CHK receiver (CHSTAT3CHK-R) onto the Wi-Fi network.

## 3. Thermostat overview

### 3.1. Thermostat 1 (single heating zone)



#### 3.1.1. Clock & weekday setting

Turn the thermostat on, then press and hold the 'M' button for 3 seconds, set the clock (Minute-Hour-Weekday) by pressing or , each press of the 'M' button will go to the next item setting.

#### 3.1.2. 7 day program schedule

Press and hold 'P' for 3 seconds to enter program setting.

Set the schedule (minute-hour-Temperature-period-day) by pressing or , each press of the 'P' button will go to next item setting.

Default setting:

Period	1		2		3		4	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp
1-5 (Mon - Fri)	7:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
6 (Saturday)	8:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
7 (Sunday)	8:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C

#### 3.1.3. Mode selection

Press 'M' to select PRG (program) mode, MAN (manual) mode or Eco mode.

### 3.1.4. Open window detect function (OWD function)


Whilst the 'open window detect' function is enabled in the parameter settings, the system will automatically stop heating when it detects a sudden drop in room temperature (2°C within 15 minutes as default).

This is normally caused when a window and/or door is opened without turning off the heating.

The device will return to the previous mode of operation after 30 minutes, then  will disappear. Press any button to exit the OWD function during the heating off period.

### 3.1.5. Child lock

Under child lock on (refer to section 3.1.6 of the Thermostat 1's parameter settings), the buttons will lock once the backlight has turned off.

Press  &  together for 5 seconds to unlock the thermostat temporarily for adjustments

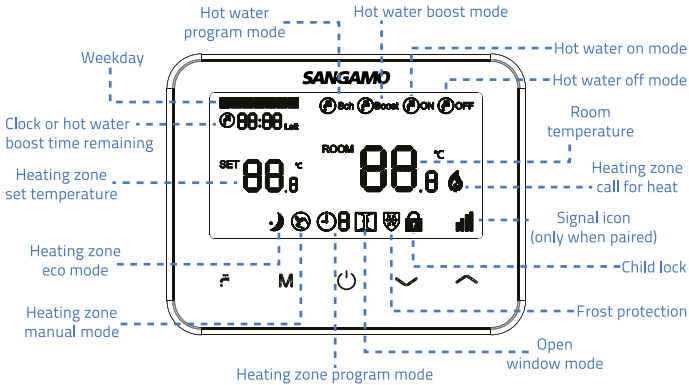
### 3.1.6. Parameter settings

When in off mode, press and hold 'M' &  for 6 seconds to enter the parameter setting Menu.

Adjust the value by pressing  or  each press of 'M' will go to the next item.

Menu	Description	Range	Default Value
01	Temperature calibration for internal sensor	-8°C to 8°C	0°C
02	Set point maximum	5°C to 35°C	35°C
03	Set point minimum	5°C to 35°C	5°C
05	Frost protection temp.	5°C to 15°C	5°C
09	Dead zone	0°C to 3°C	0°C
11	Child lock	1:Lock 0:Unlock	0
12	Open Window Detect (OWD) function	1:Enable 0:Disable	0
13	OWD detect time	2 to 30 minutes	15 minutes
14	OWD temperature drop	2°C to 4°C	2°C
15	OWD delay time select (return to previous working status)	10 to 60 minutes	30 minutes
17	Factory reset	0: No 1: Yes, and then press on/off button for 5 seconds, wait until the thermostat restarts	0
	Software version		
31	Master ID code	Read only	

## 3.2. Thermostat 2 (1 heating zone & 1 hot water zone)



### 3.2.1. Clock & program schedule for heating zone

Turn the thermostat on, then press and hold the 'M' button for 3 seconds.

Set the clock (Minute-Hour-Weekday) by pressing or , each press of the 'M' button will go to the next item setting.

After setting the clock, press 'M' for the program schedule setting.

Set the schedule (Weekday-Period-Start time-Temp) by pressing or , each press of 'M' button will go to next item setting.

Period	1		2		3		4		5		6	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp	Time	Temp
1-5 Monday to Fri	7:00	22°C	8:30	19°C	12:00	22°C	13:30	19°C	18:00	22°C	22:00	19°C
6 Saturday	8:00	22°C	8:30	19°C	12:00	22°C	13:30	19°C	18:00	22°C	22:00	19°C
7 Sunday	8:00	22°C	8:30	19°C	12:00	22°C	13:30	19°C	18:00	22°C	22:00	19°C

### 3.2.2. Program schedule for water zone

Turn the thermostat on, then press and hold button for 3 seconds to set the hot water program schedule. Set the schedule (weekday-minute-hour-on/off) by pressing , each press of the button will go to next item setting.

Period	1		2		3		4		5		6	
	Time	Mode	Time	Mode	Time	Mode	Time	Mode	Time	Mode	Time	Mode
1-5 Monday to Fri	7:00	On	8:30	Off	12:00	On	14:00	Off	18:00	On	22:00	Off
6 Saturday	8:00	On	8:30	Off	12:00	On	13:30	Off	18:00	On	22:00	Off
7 Sunday	8:00	On	8:30	Off	12:00	On	13:30	Off	18:00	On	22:00	Off

### 3.2.3. Mode selection for heating zone

Press 'M' to select PRG (program) mode, MAN (manual) mode or Eco mode.

### 3.2.4. Mode select for hot water zone

Press button to select hot water OFF / ON / PRG .

Boost 0.5 Hours / 1 Hours / 1.5 Hours / 2 Hours / 2.5 Hours

### 3.2.5. Open window detect function (OWD function)

Whilst the 'open window detect' function is enabled in the parameter settings, the system will automatically stop heating when it detects a sudden drop in room temperature (2°C within 15 minutes as default). This is normally caused when a window and/or door is opened without turning off the heating.

The device will return to the previous mode of operation after 30 minutes, then will disappear. Press any button to exit the OWD function during the heating off period.

### 3.2.6. Child Lock

Under child lock on (refer to section 3.1.6 of the Thermostat 1's parameter settings), the buttons will lock once the backlight has turned off.

Press & together for 5 seconds to unlock the thermostat temporarily for adjustments

### 3.2.7. Parameter settings

When in off mode, press and hold 'M' & for 6 seconds to enter the parameter setting Menu. Adjust the value by pressing or each press of 'M' will go to the next item.

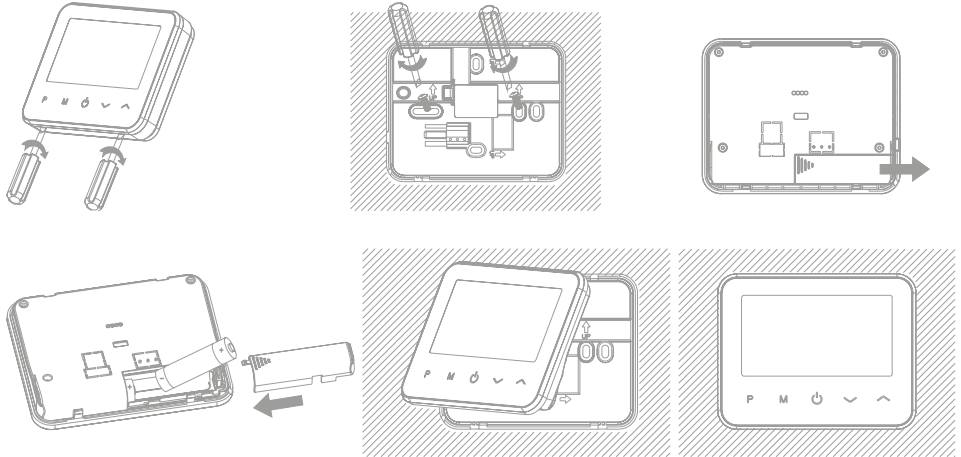
Menu	Description	Range	Default Value
01	Temperature calibration for internal sensor	-8°C to 8°C	0°C
02	Set point maximum	5°C to 35°C	35°C
03	Set point minimum	5°C to 35°C	5°C
05	Frost protection temp.	5°C to 15°C	5°C
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17	Factory reset	0: No 1: Yes, and then press on/off button for 5 seconds, wait until the thermostat restarts	0
	Software version		
31	Master ID code	Read only	

## 4. Installation

### 4.1. Thermostats

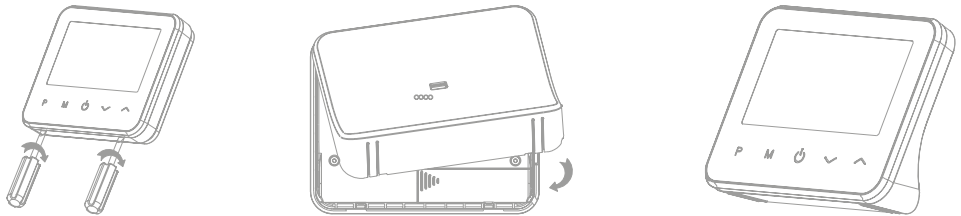
#### 4.1.1. Wall mounted

1. Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal screwdriver into the slots on the bottom face of the thermostat.
2. Mark 2 hole positions on the wall using the back plate as a positioning template. Drill at the marked positions and insert a rawl plug into each hole. Screw the thermostat's back plate securely on the wall.
1. Remove the battery cover, and insert the batteries or plug in USB type-C cable.
3. Clip the front of the thermostat back onto the thermostat back plate.



#### 4.1.2. Freestanding Installation

2. Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal screwdriver into the slots on the bottom face of the thermostat.
3. Remove the battery cover, and insert the batteries or plug in USB type-C cable.
4. Clip the front of the thermostat onto the provided holder.

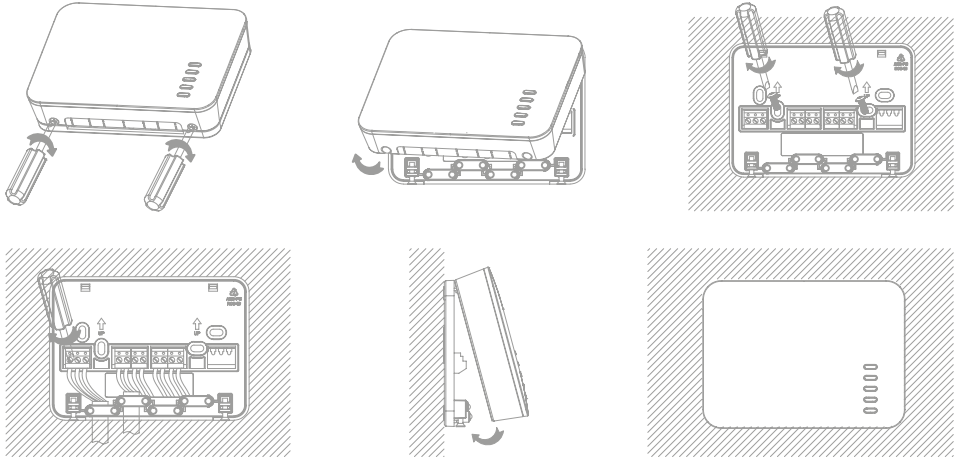




## 4.2. Receiver

### 4.2.1. Wall mounted

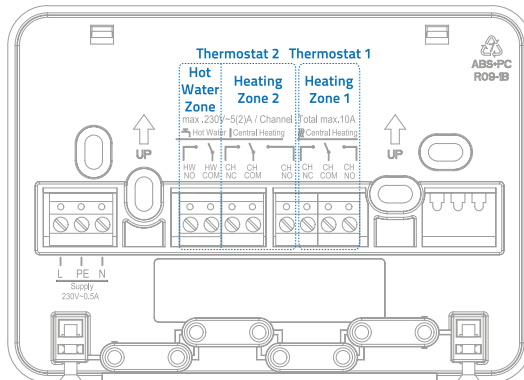
1. Using a screwdriver, slightly loosen the screw located at the base of the receiver.
2. Position the receiver's backplate against the wall, fixing into place using screws provided.
3. Terminate the cables on the receiver as shown in the wiring diagram (section 4.2.2).  
**Caution: Before any installation and/or maintenance, ensure that the electrical supply is switched off at the breaker.**
4. Mount the front panel back onto the back plate, and tighten the retaining screws on the base.
5. Switch on the power supply, the power LED will illuminate.



### 4.2.2. Wiring

Connect the 230V mains supply and load cable into the backplates terminals which are marked below:

**Caution: Before any installation and/or maintenance, ensure that the electrical supply is switched off at the breaker.**





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