

SPECIFICATIONS

TRANSMITTER

Power supply	4x AAA 1.5V alkaline batteries
Battery lifespan	1 year
Temperature adjustment range	5 to 35°C
Temperature adjustment scale	0.5°C
Temperature display range	0 to 50°C
Temperature display scale	0.1°C
Operating temperature	0 to 50°C
Switching differential	0.5°C or 1.0°C selectable
Clock accuracy	<1 sec per day
Protection rating	IP30
Pollution class	3
Flexible wire size	0.5-1.5mm ²
Rigid wire size	0.5-2.5mm ²
Dimensions	L110.8 x H104 x D21.5
Transmission frequency	868.35Mhz
ErP Class	I

RECEIVER

Power supply	230Vac 50Hz
Contact rating	16A, 250Vac (Volt free changeover contacts)
Radio frequency	868.35Mhz
Receiver category	2
Protection rating	IP43
Insulation class	II
Operating temperature	-10 to 60°C
Storage temperature	-10 to 60°C
Flexible wire size	0.5-1.5mm ²
Rigid wire size	0.5-2.5mm ²
Dimensions	L88 x H88 x D39.4
Complies with	EN60730-1, EN60730-2-1, EN60730-2-7, EN60730-2-11, EN60950-1, EN609501/A11, EN12098-2, EN12098-5, EN301-489-3, EN300-220-1, EN300-220-2, EN301-489-1

SERVICE AND WARRANTY

Guarantee: as shown on product identification label.
Any tampering or misuse will invalidate this guarantee.

This product must meet Waste Electronic and Electrical Equipment Regulations (WEEE) for suitable environmental recycling, recovery and/or disposal. End of life products should be handled in line with local regulations. Alternatively return end of life product to Sangamo for correct disposal.

CUSTOMER CARE POLICY

As part of Sangamo's continuous improvement program, the company operates a Customer Care policy. This means we welcome your comments and complaints, as it can help us to improve our services to you, our customer.

Due to our policy of continuous product improvement and development, the specifications in this guide may be subject to change without prior notice.



WEE/JH0069TY



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SANGAMO

Choice RSTAT5 RF



Wireless Digital Programmable Thermostat Installation Instructions

SAFETY NOTICE



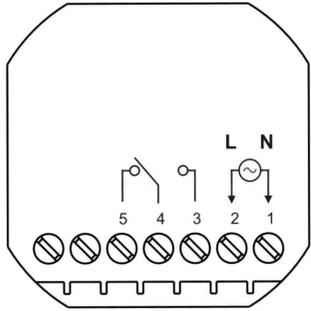
This unit must be installed by a suitably qualified person in accordance with the latest IEE Wiring Regulations.

Isolate mains supply before commencing installation. Please read all installation instructions before proceeding.

Ensure that the fixed wiring connections to the mains supply is via a fuse rated at not more than 16 amps and a class 'A' switch having a contact separation of a minimum of 3mm in all poles.

No earth connection is required as the product is double insulated but ensure continuity of earth throughout the system

RECEIVER WIRING

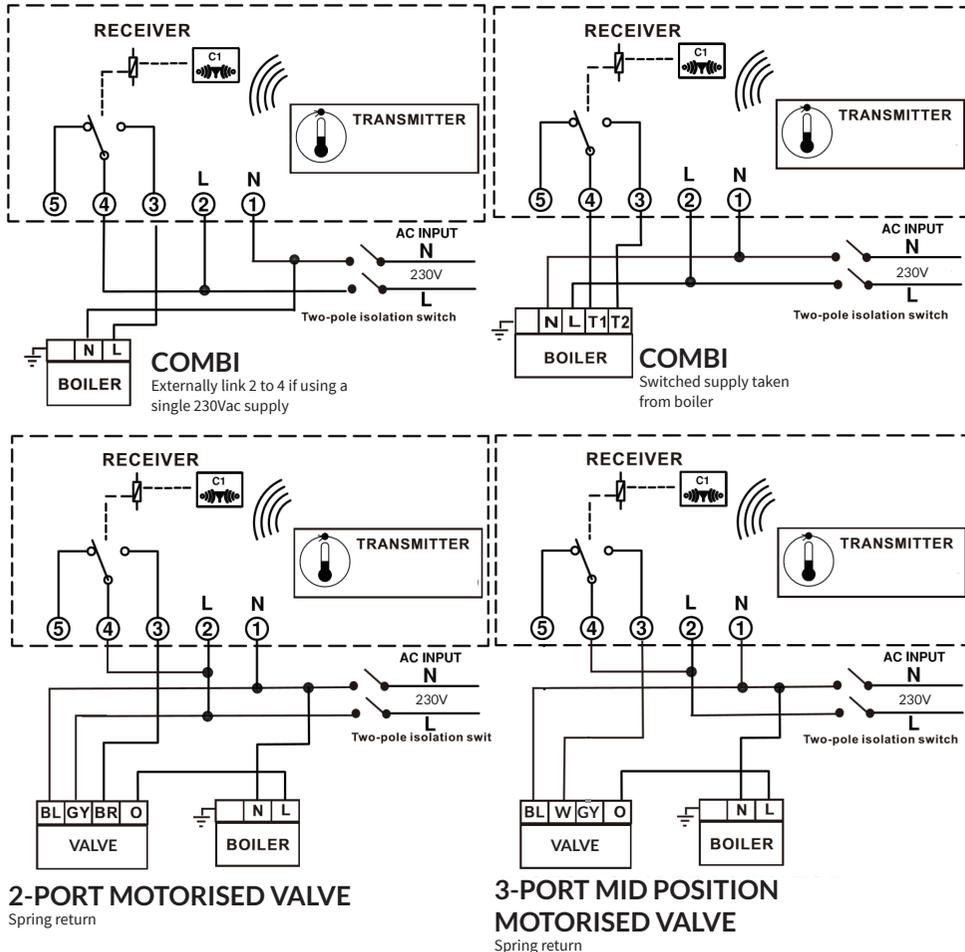


1. Neutral
2. Live
3. Output (Call for heat) - Normally closed
4. Input (Switching circuit)
5. Not used - Normally open

Externally link 2 to 4 if using a single 230Vac supply

EXAMPLE CIRCUIT DIAGRAMS

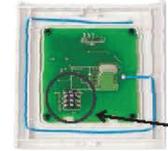
NB: For reasons of space & clarity some system components are not shown.



RF ADDRESS CODE SETTING

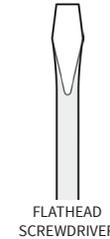


The thermostat and receiver are automatically paired when you receive them, however, if there is another unit nearby (e.g. in a neighbour's home) the receiver may trigger their transmitter.



To avoid this you can change the RF address code on both the thermostat and transmitter. To do this open up both and change the DIP-switches inside each. Both must match each other in order to communicate.

FITTING THE TABLE STAND



1. Insert "-" head screw driver into position shown above.



2. Push upwards



3. Pull stand off back plastic housing



Make sure the "stand" faces to correct direction.



5. Move the "stand" downward.

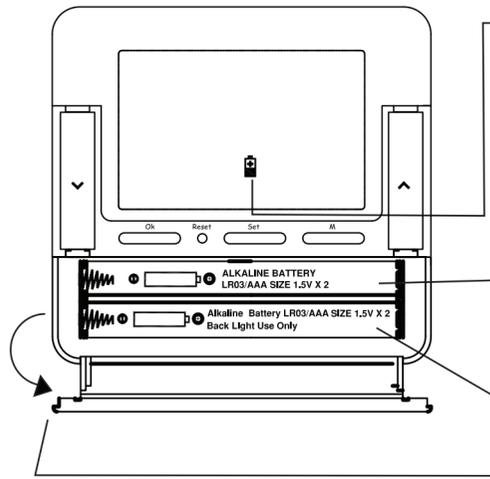


6. The stand is now fixed.



Pressing "stand" downward, as shown in picture above, can take it off the back housing

CHANGING THE BATTERIES



When the Battery Low warning sign appears on the display, replace the batteries immediately.

Flip to open the battery compartment on the plastic housing.

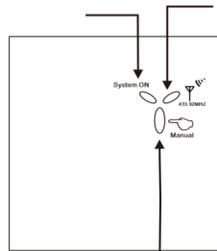
Upper compartment
2x 1.5v Alkaline AAA for transmitter

Lower compartment
2x 1.5v Alkaline AAA for back light and transmitter

DO NOT USE RECHARGEABLE BATTERIES

RECEIVER

This LED indicates if a signal is being sent to the boiler to turn on. Blue light indicates the boiler should be firing.



If LED is permanently lit no RF signal is being found. Heating will turn off after 10 minutes if no RF transmission resumes. After the RF signal is recognised the heating schedule will continue.

Manual button. If RF signal fails, for example if the batteries in the thermostat are flat, this button can turn the heating on and off.

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Choice RSTAT5 RF



Wireless Digital Programmable Thermostat User Instructions

WHAT IS A PROGRAMMABLE THERMOSTAT?

A programmable thermostat differs from a programmer that you may be used to. With this thermostat you do not set on and off times. Instead you are setting your desired temperature at varying points throughout the day. This means your home will always be comfortably warm when needed but you will not be wasting energy (and money) heating your home when it's not required.

If your thermostat is set to 21°C, for example, your boiler will run until the thermostat reads over that temperature and then tell the boiler to turn off, meaning you won't be calling for heat when your home is already at your desired temperature.

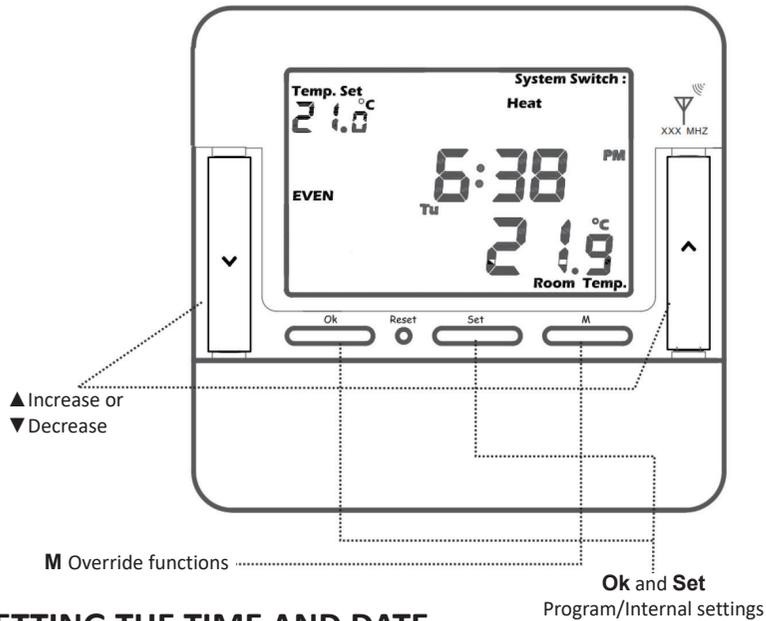
When you set a temperature you are saying you don't want the heating to come on unless the room temperature is lower than the set temperature.

INTRODUCTION

The Choice RSTAT5 RF comprises of a portable battery powered thermostat (transmitter) and a separate wall mounted mains relay box (receiver). The transmitter should be located in the main living area and the receiver is mounted close to the boiler.

This programmable room thermostat has been designed to bring you comfort and energy economy. It allows you to program and regulate your heating system using up to 6 programmable events per day.

To ensure its correct operation the thermostat should be mounted or situated approximately 1.3m above the floor and away from direct sunlight, heat sources and drafts.



SETTING THE TIME AND DATE

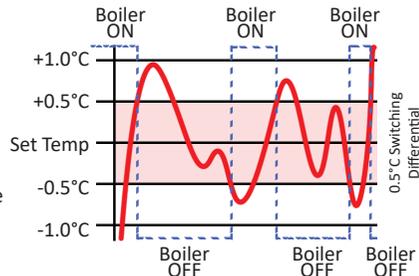
Before you set the thermostat you should fix the time and date.

1. Press and hold **Set** for 6 seconds.
2. Choose between °F and °C using ▼ ▲ and press **Ok**.
3. Choose between 24hr and 12hr clock using ▼ ▲ and press **Ok**.
4. Set the Year using ▼ ▲ and press **Ok**.
5. Set the Month using ▼ ▲ and press **Ok**.
6. Set the Day using ▼ ▲ and press **Ok**.
7. Set the Hour using ▼ ▲ and press **Ok**.
8. Set the Minute using ▼ ▲ and press **Ok**.
9. Choose between 0.5°C and 1.0°C switching differential using ▼ ▲ and press **Ok**.
10. 4 dashes appear on the display, this can be used to set a reminder to replace filters in an air conditioning system, press **Ok** to skip this.
11. Press **Ok** to return to Run Mode



What is switching differential?

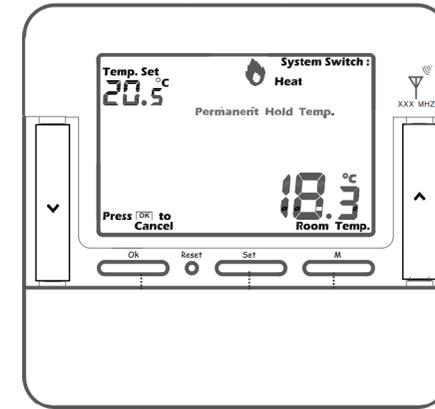
Without a switching differential your boiler would stop the instant it reached the desired temperature then start to fall where it would instantly kick back in again and be stuck switching your boiler on and off repeatedly. A switching differential creates a band around the temperature to allow the set temperature to be maintained. We recommend using 0.5°C unless you have a specific reason not to.



HOLD TEMPERATURE PERMANENTLY

Hold the thermostat at a desired temperature until manually cancelled by you.

1. Press M x2 to enter permanent override mode then select temperature using ▼ ▲ and press **Ok**.
 2. Permanent Hold and Temp. Set are displayed.
- To cancel setting and return to normal operation press **Ok**.

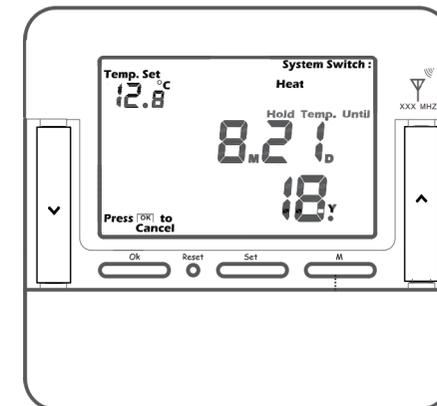


Permanent Hold
Temp. is shown above the time on the display. Time disappears from the display.

HOLIDAY MODE

Hold the temperature at a desired set point until a specific date.

1. Press M x3 to enter holiday mode then select temperature using ▼ ▲ and press **Ok**.
 2. Select the Month and Year using ▼ ▲ and press **Ok**.
 3. Select the Day using ▼ ▲ and press **Ok**.
 4. Hold Temp Until, Temp. Set & Hours are displayed.
- To cancel setting and return to normal operation press **Ok**.



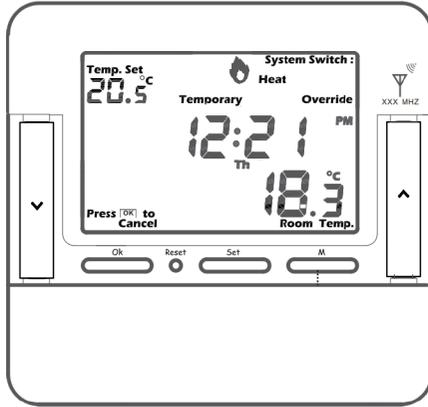
Hold Temp. Until is shown above the date on the display. Bottom right cycles between the set year and the room temperature.

CHANGE THE TEMPERATURE

To manually change the temperature temporarily you simply press the raise or lower buttons to the desired level, if left alone this will stay set until the next programmed change at which point it returns back to the original schedule.

1. Choose desired temperature using ▼ ▲

To cancel setting early and return to normal operation press **Ok**.



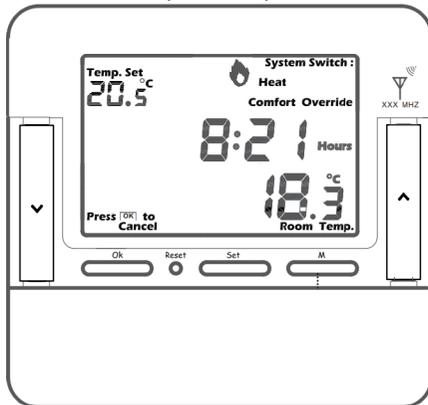
Temporary Override is shown above the time on the display

CHANGE THE TEMPERATURE FOR A SET NUMBER OF HOURS

You can also set the thermostat to hold at the temperature you want for a defined number of hours.

1. Press M to enter override mode then select temperature using ▼ ▲ and press Ok.
2. Select number of hours using ▼ ▲ and press Ok.
3. Comfort Override, Temp. Set & Hours, with the hours remaining, are shown on the display.

To cancel setting and return to normal operation press **Ok**.



Comfort Override is shown above the time on the display. Time changes to countdown of the remaining hours and minutes.

DEFAULT PROGRAM

The Choice RSTAT5 RF comes preset with a default program so that you can get up and running straight away. Each day is split into 6 parts each one can have it's time or temperature changed to suit you.

Mo - Fr	Time	°C
1: MORN	6:00am	21°C
2: DAY	8:30am	15.5°C
3: Noon	12:00pm	21°C
4: Break	2:00pm	15.5°C
5: EVEN	4:30pm	21°C
6: NIGHT	10:30pm	18.5°C

Sa - Su	Time	°C
1: MORN	7:00am	21°C
2: DAY	8:30am	21°C
3: Noon	12:00pm	21°C
4: Break	2:00pm	21°C
5: EVEN	4:30pm	21°C
6: NIGHT	10:30pm	18.5°C

CUSTOM PROGRAM

Most users will want to alter these times to suit their own circumstances. A good starting point is to think about the parts like so:

MORN: When does the first person in your home get up?

DAY: When does the last person leave in the morning?

Noon: If anyone is home at lunchtime, when?

Break: and when do they leave again?

EVEN: What time does the first person get back home in the afternoon/evening?

NIGHT: What time is everyone in your home in bed?

and when thinking about temperatures:

When people are home: Set depending on your minimum desired comfortable temperature. (see below for more details)

When no-one is home: Set depending on how quickly your home heats up.

At night: The heating should be lowered, cooler temperatures help you sleep.

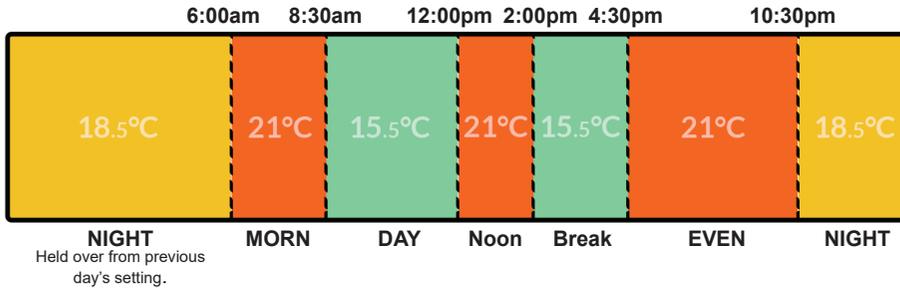


What temperature should I heat my home to?

Turning your room temperature down just one degree can have significant savings on your energy bill. A good way to get the right temperature for you is to start at 21°C, leave it for a week and lower 1°C. Repeat this process until you notice it being a little too cool and turn it back up 1°C. You now have the lowest possible comfortable setting.

CUSTOM PROGRAM cont...

Below shows the programming segments of the default program on a Weekday.



Essentially, if the thermostat reads the temperature below the chosen temperature it will send a message for the boiler to fire and your heating to come on.

The above diagram shows how the day is split up into named parts but BOTH the times and temperatures are changeable. Using the programming instructions that follow you can set the time each part starts and the temperature it will set to at that point. As can be seen the NIGHT setting carries over & stays until the MORN time the following day.

If you don't need a certain program to be there, for example you do not require Noon as no one is home at that time of the day, then you simply set that program for the same temperature as the one before - as it cannot be deleted. There must be 6 programmed events each day even if they are set to the same temperature.

CREATING YOUR PROGRAM

Use the grids below to plan out your own custom program before you start.

Mo - Fr	Time	°C
1: MORN		
2: DAY		
3: Noon		
4: Break		
5: EVEN		
6: NIGHT		

Sa - Su	Time	°C
1: MORN		
2: DAY		
3: Noon		
4: Break		
5: EVEN		
6: NIGHT		

2am	6am	10am	2pm	6pm	10pm		

PROGRAMMING

Within programming mode the thermostat will return to normal operation if no buttons are pressed for 30 seconds.

To exit programming mode either wait 30 seconds or press **Set** x2 and **Ok**.

NB: Each day's end time is 11:59 in 12hr or 23:59 in 24hr formats. P6 should never be set for midnight as this will cause an error in programming.

Each day of the week can be programmed separately, starting with Monday (Mo)

1. Press **Set** to enter programming mode.
2. Set Mo MORN temperature using **▼▲** and press **Ok**.
3. Set Mo MORN time using **▼▲** and press **Ok**.
4. Set Mo DAY temperature using **▼▲** and press **Ok**.
5. Set Mo DAY time using **▼▲** and press **Ok**.
6. Repeat procedure for all 6 set points in the day and continue on to program each day of the week.

At any point Press **Set** x2 then **Ok** to return to Run Mode

COPY/PASTE DAY

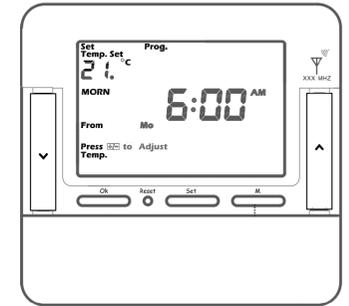
To speed up the programming sequence you can copy one day into another, or several other, days.

1. Press **Set** x2 to enter copy mode.
 2. Choose the 'Copy' day using **▲** and press **Ok**.
 3. Choose the 'Paste' day using **▲** and press **Ok**.
 4. Repeat step as required for further 'Paste' days
- At any point Press **Ok** x2 to return to Run Mode

RESET UNIT

To erase all current settings and return to it's factory default settings & programs.

1. Press and hold **Ok** and **▼** for 6 seconds.
2. When Reset is displayed push in the **Reset** button.
3. All segments on the display are shown to confirm reset has taken place.



Prog is shown at the top of the display

Copy Prog is shown at the top of the display

