



SECURE C-Stat 17-B 7 Day Programmable Room Thermostat Instruction Manual

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SECURE C-Stat 17-B 7 Day Programmable Room Thermostat



7 Day Programmable Room Thermostat

Programmable room thermostats are widely recognised as one of the best ways in which to control central heating.

C-Stat programmable room thermostats have a large display and intuitive user interface, making them easy to set up and use. C-Stat uses a sophisticated load compensation (LC) algorithm for accurate temperature control and energy efficiency.

What is a programmable room thermostat?

...an explanation for householders.

A programmable room thermostat is both a programmer and a room thermostat. A programmer allows you to set 'ON and OFF' time periods to suit your own lifestyle. A room thermostat works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting and switching it off once the set temperature has been reached.

So, a programmable room thermostat lets you choose what times you want the heating to be on, and what temperature it should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your particular needs.

Turning a programmable room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of the boiler and radiators. Neither does the setting affect how quickly the room cools down. Turning a programmable room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

The way to set and use your programmable room thermostat is to find the lowest temperature settings that you are comfortable with at the different times you have chosen, and then leave it alone to do its job. The best way to do this is to set low temperatures first, say 18°C and then turn them up by one degree each day until you are comfortable with the temperatures. You won't have to adjust the thermostat further. Any adjustments above these settings will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one programmable room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is

reasonable for the whole house. If you do have TRVs, you can chose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs. The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

Programmable room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

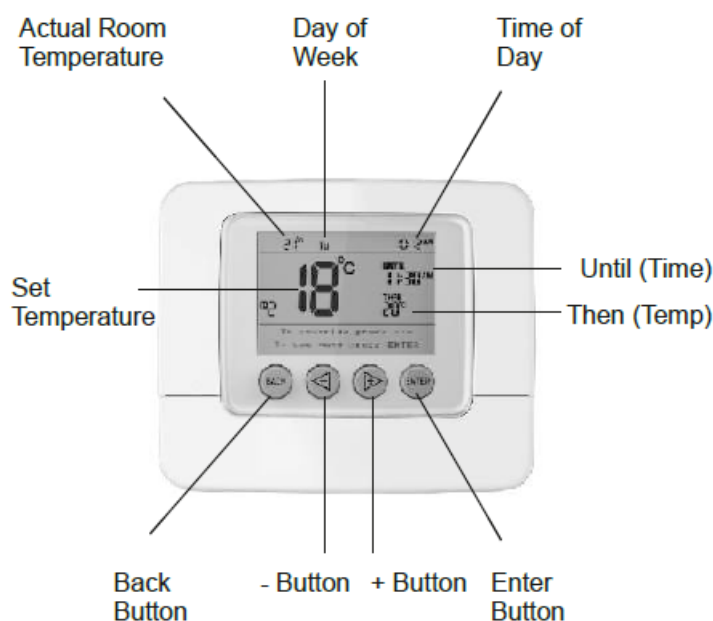
OVERVIEW – EXPLANATION FOR HOUSEHOLDER

Your installer has made an excellent choice and installed one of the very latest programmable room thermostats manufactured by Secure Meters.

Full of the latest technology, the C-Stat has been designed to be simple to use and adjust whilst still giving accurate energy saving control over your heating system.

C-Stat 17-B | C-Stat 17-M

DISPLAY



DISPLAY

Actual Room Temperature	This is the actual room temperature measured by the C-Stat
Set Temperature	<p>This is the temperature that the C-Stat will allow the room to reach. The temperature range can be set between 5°C and 30°C</p> <p>When the temperature shown in the display is achieved the C-Stat will switch the heating OFF.</p> <p>If the temperature in the room falls below the setting the C-Stat will switch the heating ON.</p>
Until (time)	This is the time that the next temperature setting is due to operate
Then (temp)	This is the temperature setting that is due to operate next
Day of the week	It is important that the correct day of the week shows in the display
Time of day	This is the current time of day
Setting Buttons	<p>Press any button to illuminate the display.</p> <p>The message 'To override press -/+ To see menu press ENTER' will appear</p>

ACTIVATING THE BACK-LIT DISPLAY

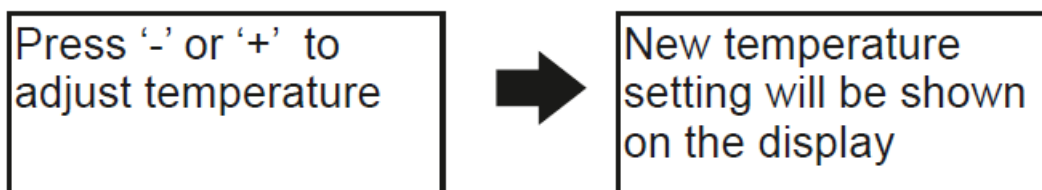
Press any button to illuminate the display. This will remain illuminated for 10 seconds

GENERAL INFORMATION

During programming please note that the display will return to its normal operating screen if the last button press exceeds 10 seconds.

TEMPORARY OVERRIDE

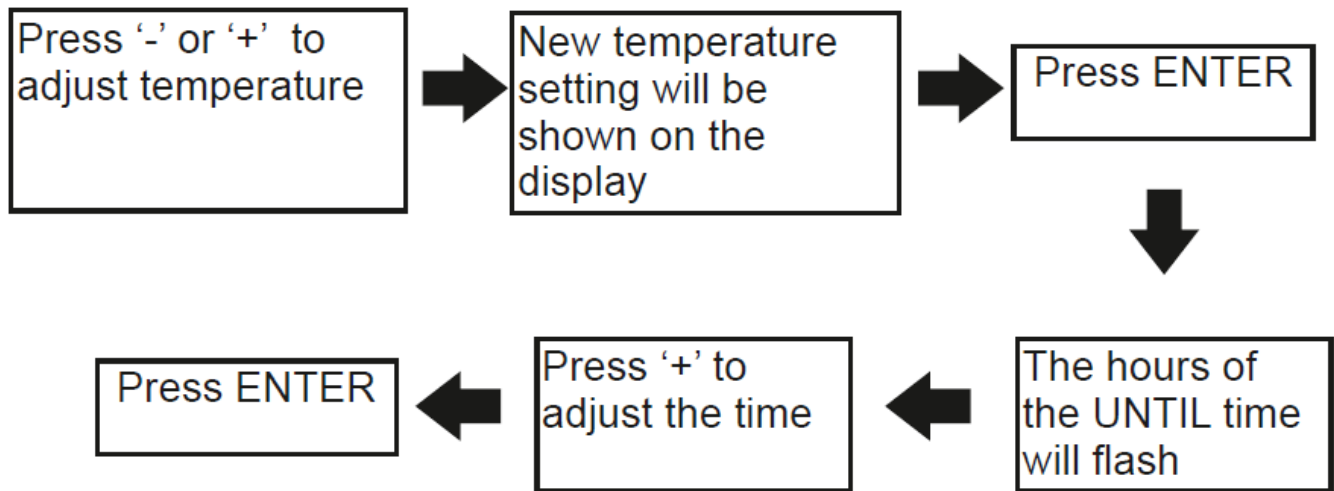
A temporary temperature change can be made at any time. It is also possible to extend how long this temperature override is in operation.



The temperature will revert to its normal programmed setting at the next timed temperature change

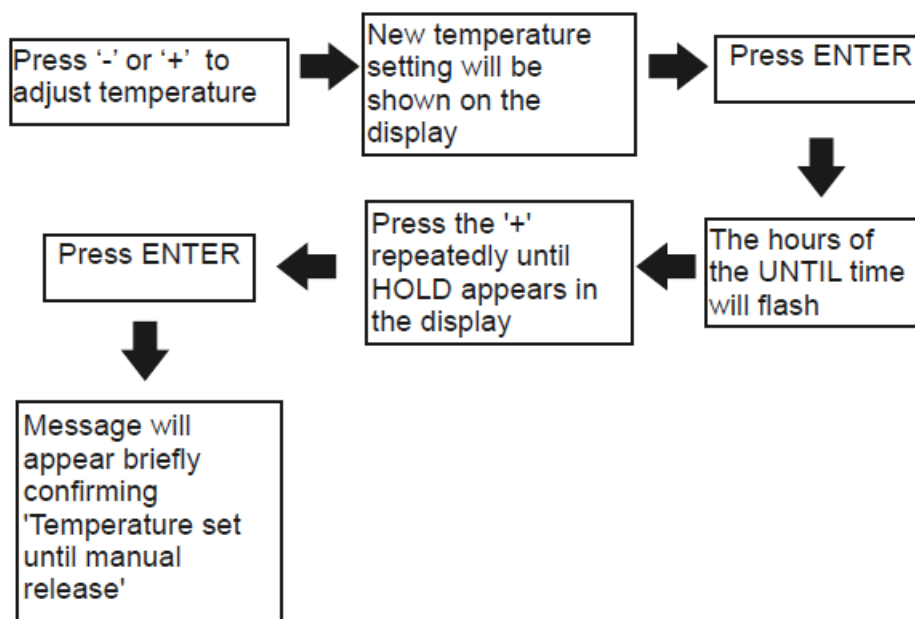
TEMPORARY OVERRIDE WITH TIME EXTENSION

(Maximum of 4 hours)



The temperature will revert to its normal programmed setting at the next timed temperature change.

PERMANENT OVERRIDE



In the 'HOLD' position the temperature can be overridden by pressing either the '-' or '+' buttons. This will then become the new 'HOLD' temperature

PERMANENT OVERRIDE – CANCELLATION



SETTING UP THE C-STAT

Upon initial installation the C-Stat has the following factory default settings

Settings – Monday to Friday

	Time	Target Temperature
Period 1	06:00 am	20 °C
Period 2	08:30 am	18 °C
Period 3	11:30 am	20 °C
Period 4	01:30 pm	18 °C
Period 5	05:00 pm	21 °C
Period 6	10:00 pm	15 °C

Settings – Saturday and Sunday

	Time	Target Temperature
Period 1	07:00 am	20 °C
Period 2	10:00 am	19 °C
Period 3	11:30 am	21 °C
Period 4	01:30 pm	18 °C
Period 5	05:00 pm	21 °C
Period 6	11:00 pm	15 °C

These can be changed by the installer or the end user at any time by accessing the MAIN MENU

MAIN MENU

To access the MAIN MENU take the following steps:

Press ENTER twice



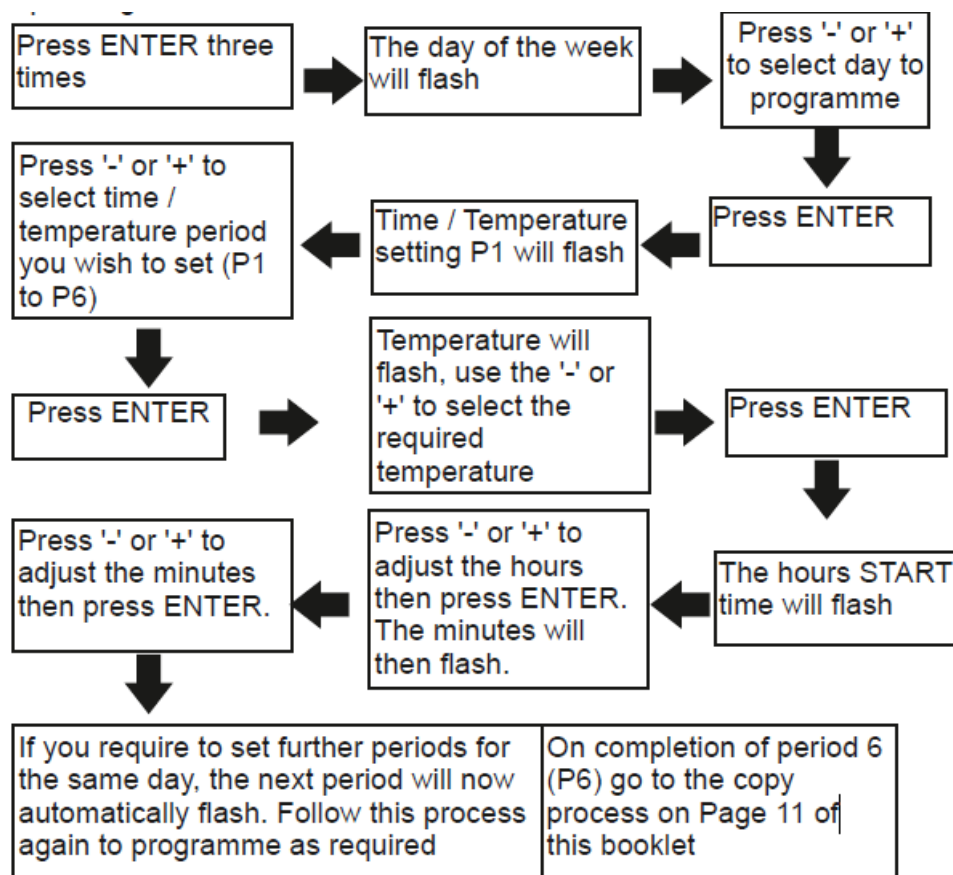
Press '-' or '+' to toggle between the menu options

MENU OPTIONS

Programme	<p>This allows the user to adjust the different time and temperature settings from the factory default settings shown in the table on page 8.</p> <p>Up to six different temperature levels can be set in any 24 hour period</p>
Standby	<p>This puts the C-Stat into Frost protection or Standby condition and allows the heating to be permanently switched off but will activate and switch the heating on if the temperature in the house falls below the standby temperature set.</p> <p>All programme settings are overridden and the unit will not return to normal operation until the standby period has ended by pressing the ENTER button.</p>
Holiday	<p>This puts the C-Stat into a temporary standby mode with a start and end date which can be set to coincide with a holiday period. At the end of the set period the C- Stat will resume normal operation</p>
Time / Date	<p>The C-Stat has a built in clock and calendar. This will require setting on initial installation.</p> <p>If this has not been set on installation please go to Setting the TIME and DATE section on page 14 before continuing</p>
Set Up	<p>Enables the programming of various options outlined in the SET UP MENU on page 15</p> <p>of these instructions – These should be set on installation.</p>

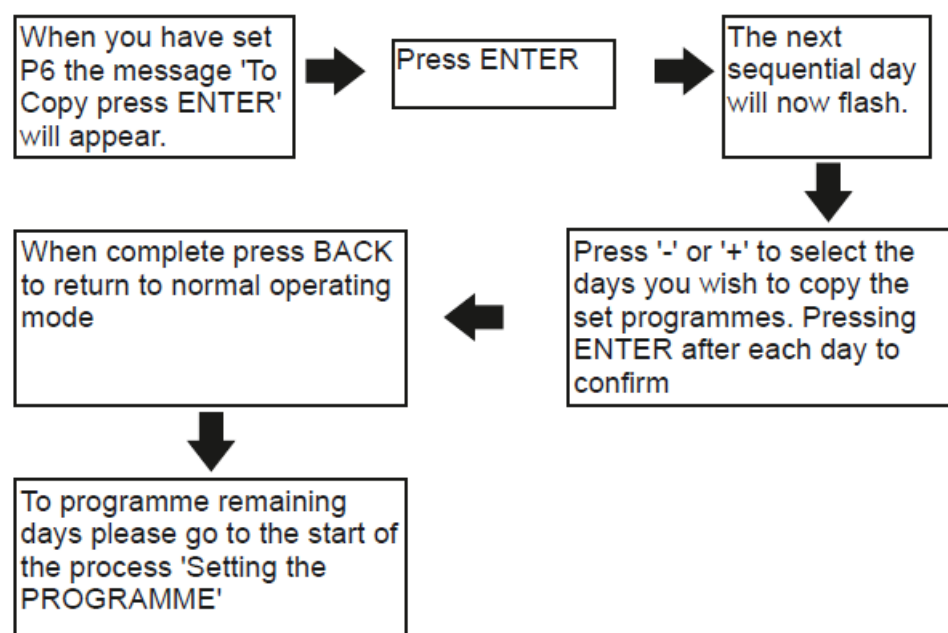
Setting the PROGRAMME

Six time and temperature settings are available in each 24 hour period. Pressing BACK at any time in this process will return you to normal operating mode.

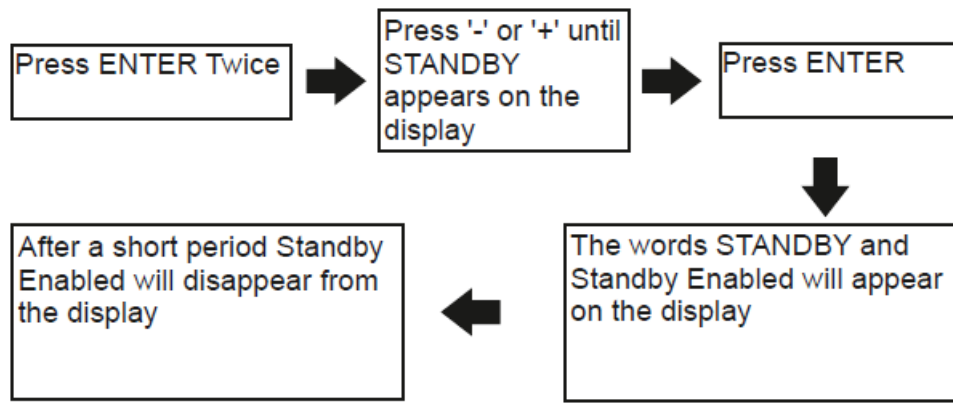


If only two different temperature settings are required in 24 hours then set the first time and temperature using programme one (P1) and the second time and temperature setting using programme setting two (P2). The remaining programmes (P3 to P6) should all be set to the same time and temperature as P2. This same method can be used if three, four or five temperature levels are required, always using the first settings to provide the temperature change commands with the remaining settings that are not required set to the same time and temperature as the last required setting.

To copy the same programmes to other days of the week, please follow the process below



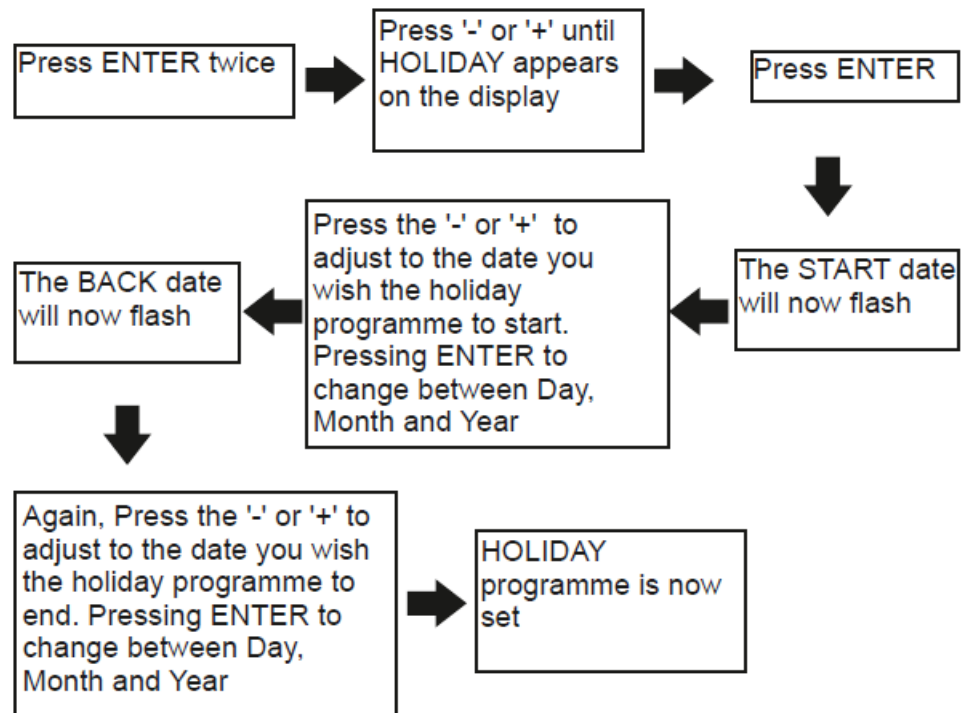
Setting the STANDBY



To exit STANDBY mode, press ENTER TWICE

Setting the HOLIDAY programme

Pressing BACK at any time in this process will return you to normal operating mode



If the holiday period START date matches today's date, the STANDBY temperature will be shown on the display together with the suitcase icon.

If the holiday period START date does not match today's date the display will remain in normal operating mode but with the suitcase icon appearing on the right of the display. Indicating a holiday period is pending



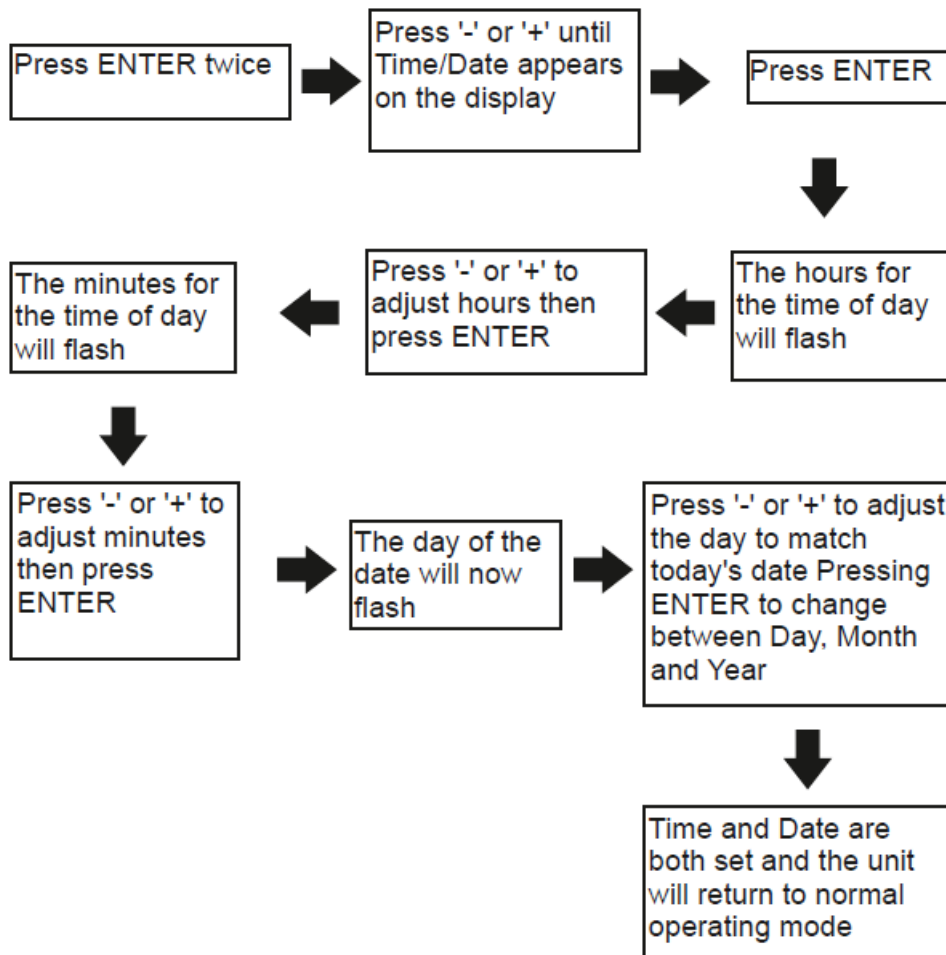
To cancel a set holiday programme in ADVANCE of its activation, re-programme using the above procedure and set the START date and BACK date to today's date.

To cancel a set holiday programme during activation press ENTER button twice, the unit will return to normal operating mode and the suitcase icon will disappear.

THE DATES SPECIFIED BECOME EFFECTIVE FROM MIDNIGHT OF THE DAY ENTERED

Setting the TIME and DATE

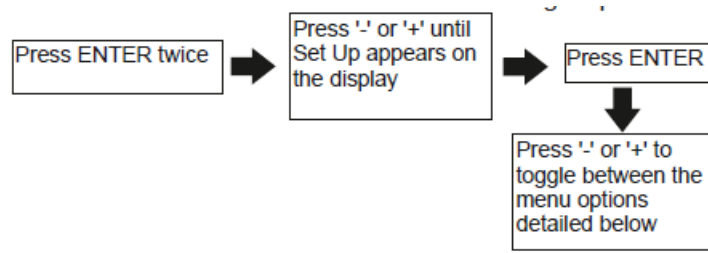
Pressing BACK at any time in this process will return you to normal operating mode



If an incorrect date is entered the wrong day will appear in the normal operating screen.

SETUP MENU

To access the SET UP MENU take the following steps:



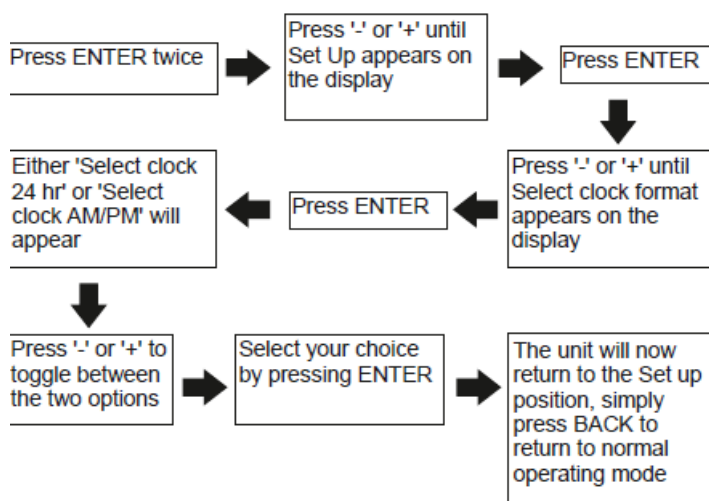
MENU OPTIONS

Select clock format	This allows the display to show the time in 24 hour or AM/PM format
Daylight saving	<p>This is the adjustment made in the UK when the clocks go back or forward in the Autumn and Spring.</p> <p>When using the C-Stat in the UK the daylight saving ON setting should be selected which will automatically adjust the GMT/BST times accordingly</p>
Standby temperature	<p>This is the temperature setting used when in Standby or Holiday mode (Min 5°C / Max 30°C)</p> <p>In cold weather the heating will activate if the temperature being measured falls below this temperature setting.</p>
Lower temperature limit	<p>This sets the lowest temperature setting the C-Stat will allow to be programmed.</p> <p>The default setting is 5°C</p>
Upper temperature limit	<p>This sets the highest temperature setting the C-Stat will allow to be programmed</p> <p>The default setting is 30°C</p>

LC cycles per hour	This setting helps the LC energy saving software to operate correctly depending on the type of heating system you have
Optimum start	This calculates the amount of time the C-Stat may need to switch on in advance of the next target temperature setting in order to meet the requirement.
Tamper setting	This setting allows a 4 digit release code to be set up to stop unauthorised adjustments being made in multi occupancy buildings.

Setting the SELECT CLOCK FORMAT

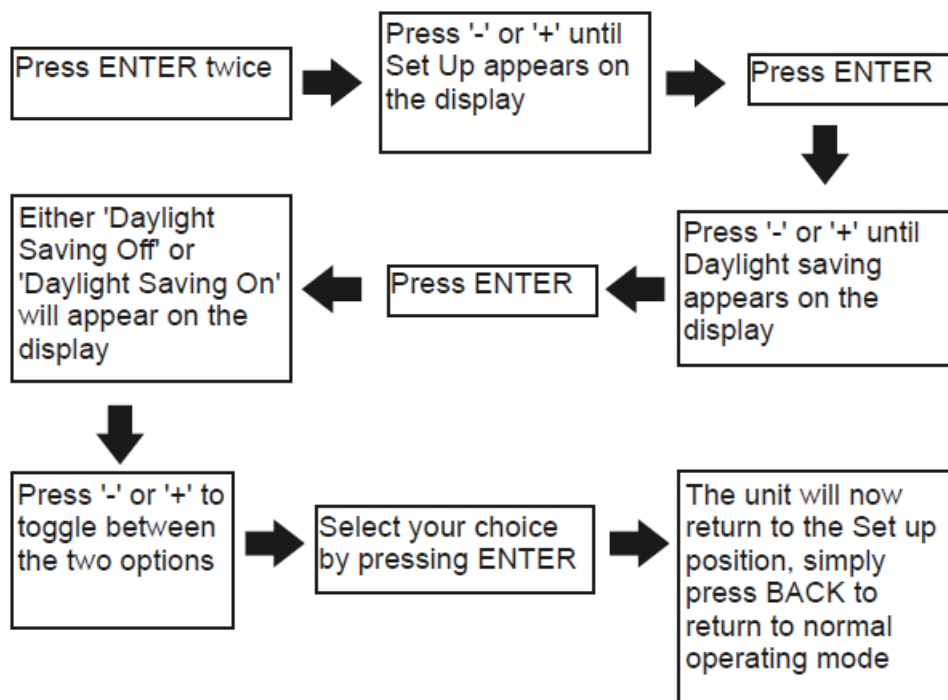
Pressing BACK at any time in the process will return you to normal operating mode



Select the DAYLIGHT SAVING option

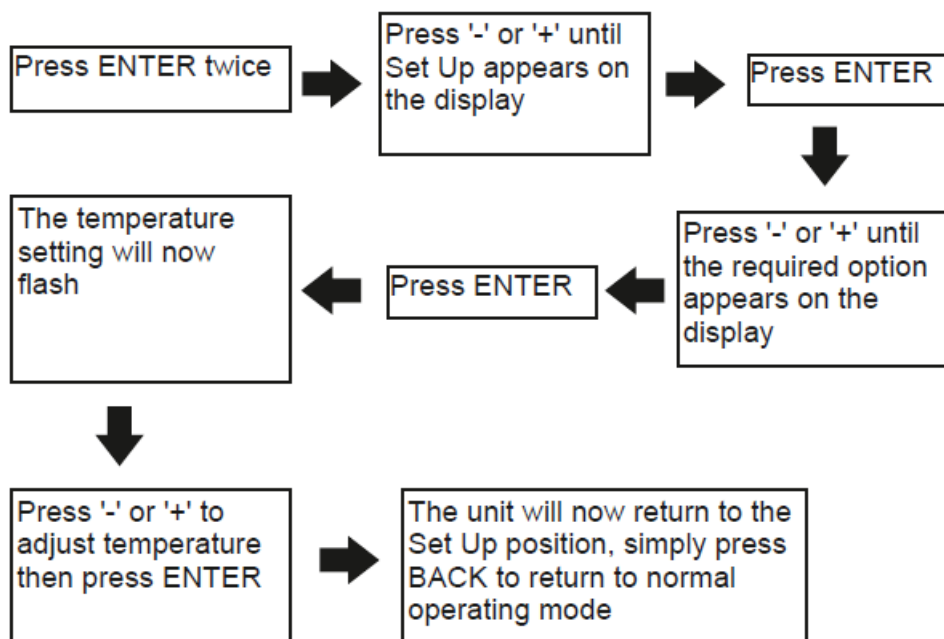
Pressing BACK at any time in this process will return you to normal operating mode

The default factory setting is for the Daylight saving to be ON giving automatic switching to GMT/BST



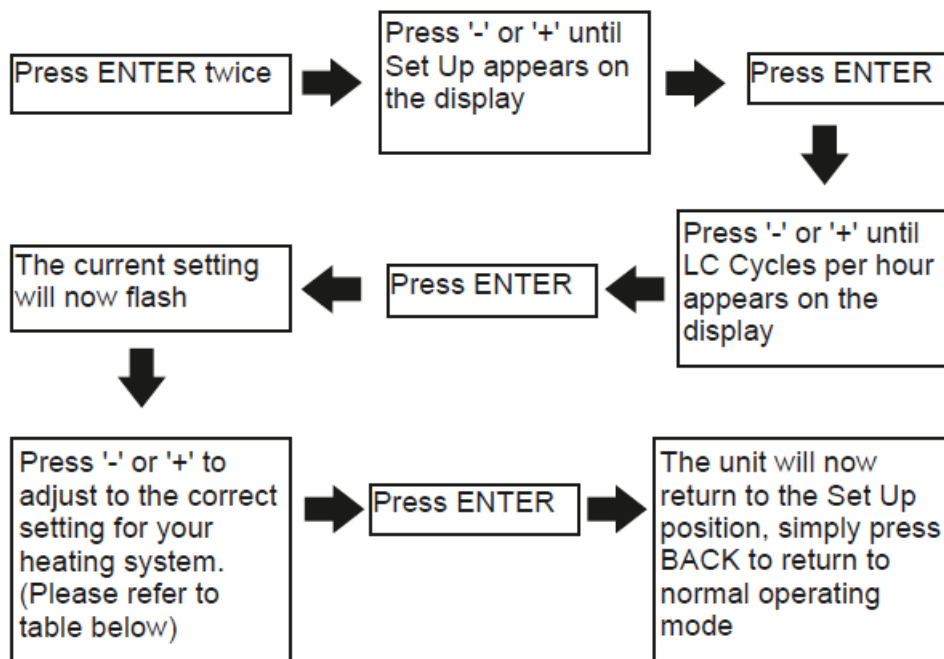
Setting the **STANDBY TEMPERATURE**, **LOWER TEMPERATURE LIMIT** or **UPPER TEMPERATURE LIMIT**

Pressing BACK at any time in this process will return you to normal operating mode



Setting the LC cycles

Pressing the BACK at any time in this process will return you to normal operating mode



Oil Boilers	3 cycles per hour
Gas Boilers	6 cycles per hour
Not used	9 cycles per hour
Electric Heating	12 cycles per hour

This feature would normally be set by your installer

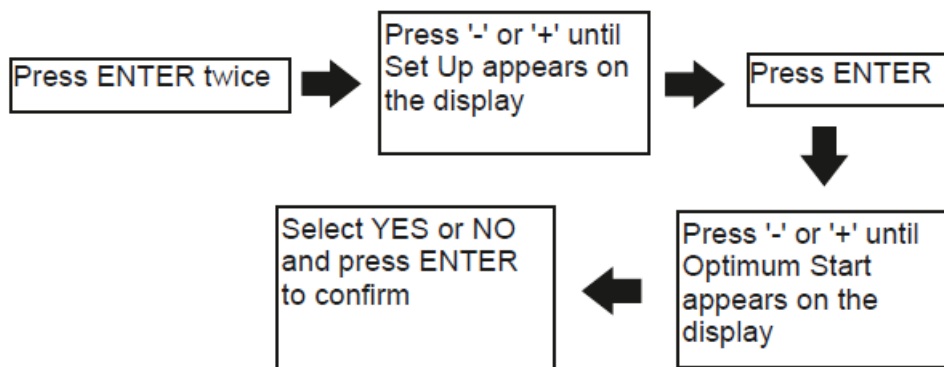
Setting the OPTIMUM START

This setting will allow the C-Stat to anticipate the next set temperature and switch on up to two hours in advance to ensure room temperature has been reached by the time the new set temperature applies.

As a consequence the switch on time could take place anywhere between 2 hours and zero before the set time and temperature.

With the optimum start set to OFF the user will need to anticipate the warm up time needed in the programme settings. (Typically the set temperature will be set approx. 1 hour in advance of when it is required)

Pressing the BACK at any time in this process will return you to normal operating mode



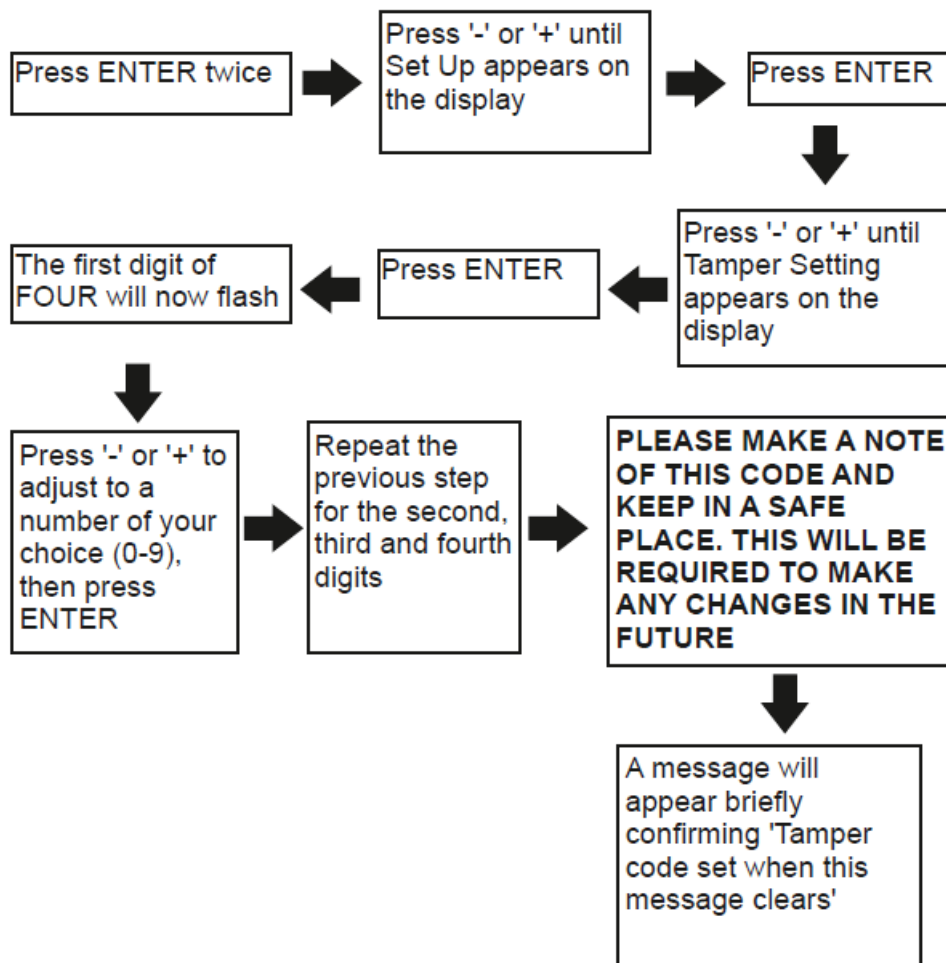
This feature would normally be set by your installer.

Setting the TAMPER SETTING

This setting allows the unit to be locked to the programmes set and can only be reactivated by entering the pin code.

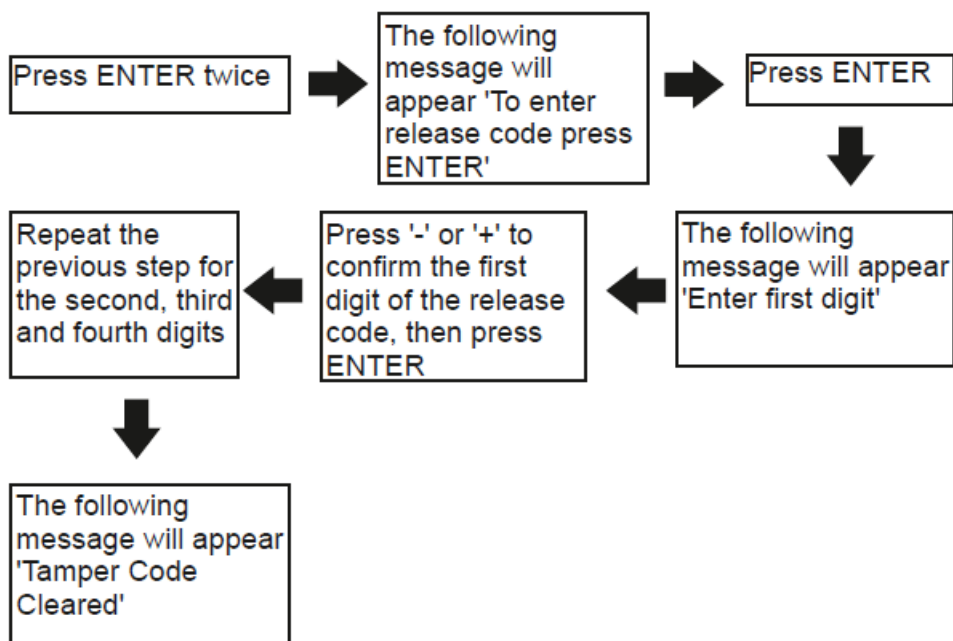
None of the buttons will operate until the security code is entered

Pressing BACK at any time in this process will return you to normal operating mode



Cancelling the TAMPER SETTING

Pressing BACK at any time in this process will return you to normal operating mode

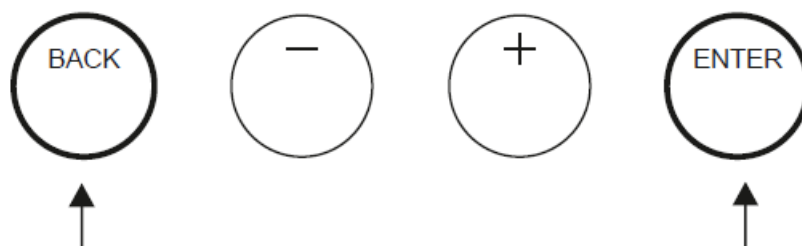


If you do not know the release code, contact the Homeowner or Landlord in the first instance.

If you are the Homeowner or Landlord have forgotten the code, contact Secure Meters Technical who will be able to provide you with an override code once various security questions have been answered satisfactorily.

RESETTING THE C-STAT

Electronic equipment can in some circumstances be affected by electrical interference.
If the display becomes frozen or scrambled simply press both the BACK and ENTER button simultaneously.
Using this procedure will restore the C-Stat to the original factory settings, the Time and Date will remain correct.



BATTERY

The C-Stat 17-B runs on 2 standard AA (Alkaline) non rechargeable batteries and is designed to give a battery life of approximately two years.

The C-Stat 17-M is mains powered and therefore does not require a battery.

There are three stages of warning as the batteries become low in power.

Stage 1 – The battery low symbol will appear in the display

Stage 2 – The words 'Low Battery' will appear in the display for 1 second each time a button is operated

Stage 3 – The unit will switch itself OFF and the message

'Replace Batteries' will appear permanently in the display.

The batteries should be changed at Stage 2 at the latest.

To replace the batteries of the C-Stat 17-B, please carefully pull down the hinged battery cover on the front of the unit. Ensure they are fitted correctly as indicated by the terminal markings in the battery compartment.

Please dispose the old batteries responsibly

SERVICE AND REPAIR

This programmer is NOT user serviceable. Please do not dismantle the unit. In the unlikely event of a fault developing please refer to the RESETTING THE C-STAT on page 23. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.


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Documents / Resources

	<p>SECURE C-Stat 17-B 7 Day Programmable Room Thermostat [pdf] Instruction Manual C-Stat 17-B, C-Stat 17-M, 7 Day Programmable Room Thermostat</p>
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References

-  [Secure Meters](http://www.securemeters.com)

