

# **SECURE**

## **SCS317**

### **User Instructions**

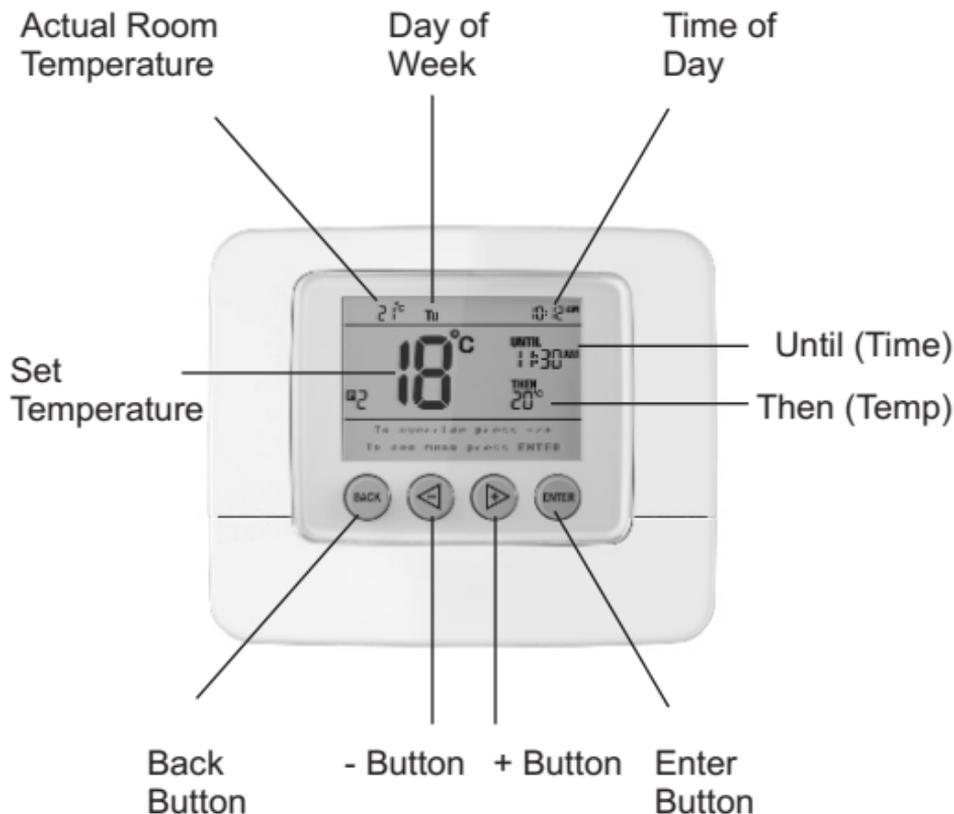


## **SCS317 7 Day Wireless Programmable Room Thermostat**

Programmable room thermostats are widely recognised as one of the best ways in which to control central heating. The SCS317 programmable room thermostat has a large display and intuitive user interface, making it easy to set up and use. SCS317 uses a sophisticated time proportional integral (TPI) algorithm for accurate temperature control and energy efficiency.

# SCS317

## DISPLAY



## DISPLAY

<b>Actual Room Temperature</b>	This is the actual room temperature measured by the SCS317
<b>Set Temperature</b>	<p>This is the temperature that the SCS317 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 SCS317 will switch the heating OFF.</p> <p>If the temperature in the room falls below the setting the SCS317 will switch the heating ON.</p>
<b>Until (time)</b>	This is the time that the next temperature setting is due to operate
<b>Then (temp)</b>	This is the temperature setting that is due to operate next
<b>Day of the week</b>	It is important that the correct day of the week shows in the display
<b>Time of day</b>	This is the current time of day
<b>Setting Buttons</b>	<p>Press any button to illuminate the display.</p> <p>The message 'To override press +/- To see menu press ENTER' will appear</p>
<b>  No Radio waves</b>	Wireless connection not set up
<b>(📶) Solid Radio Antenna</b>	<p>Z-Wave communication present</p> <p>– Flashing Radio Antenna – Temporary loss of Z-Wave communication</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

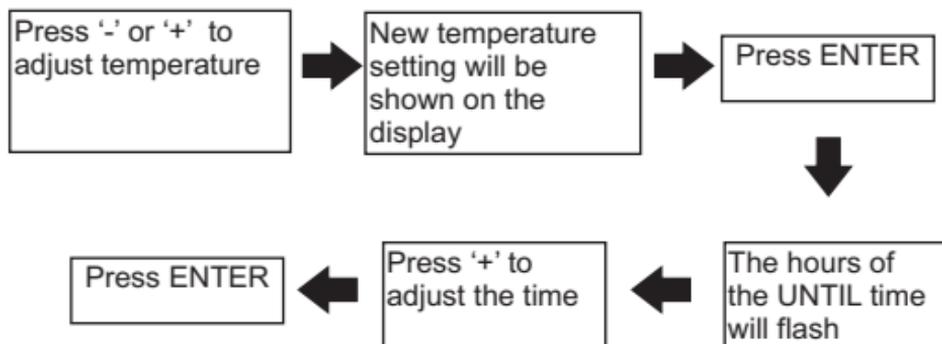
A temporary temperature change can be made at any time. It is also possible to extend how long this temperature override is in operation.



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

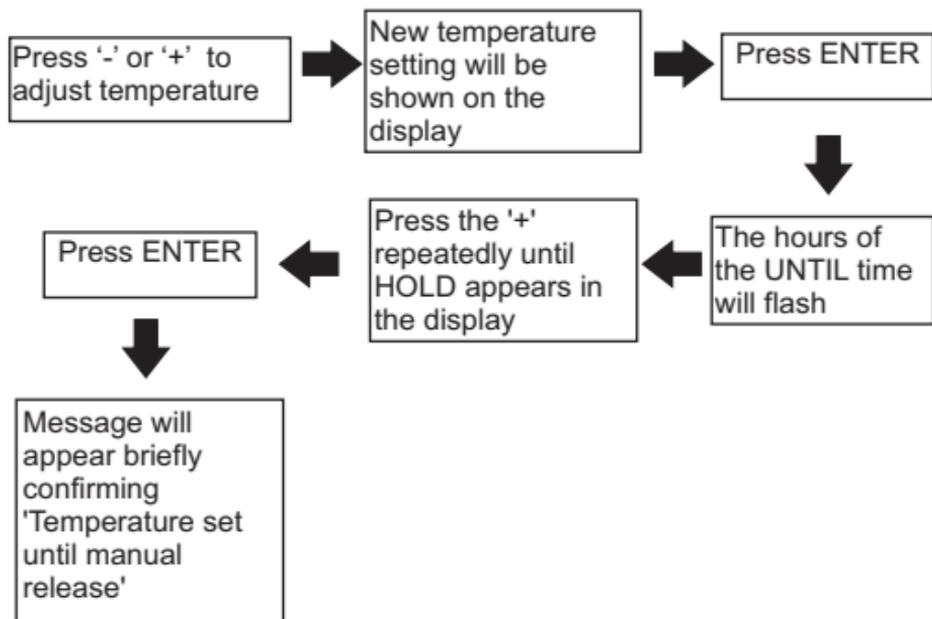
## TEMPORARY OVERRIDE WITH TIME EXTENSION

(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 SCS317

Upon initial installation the SCS317 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



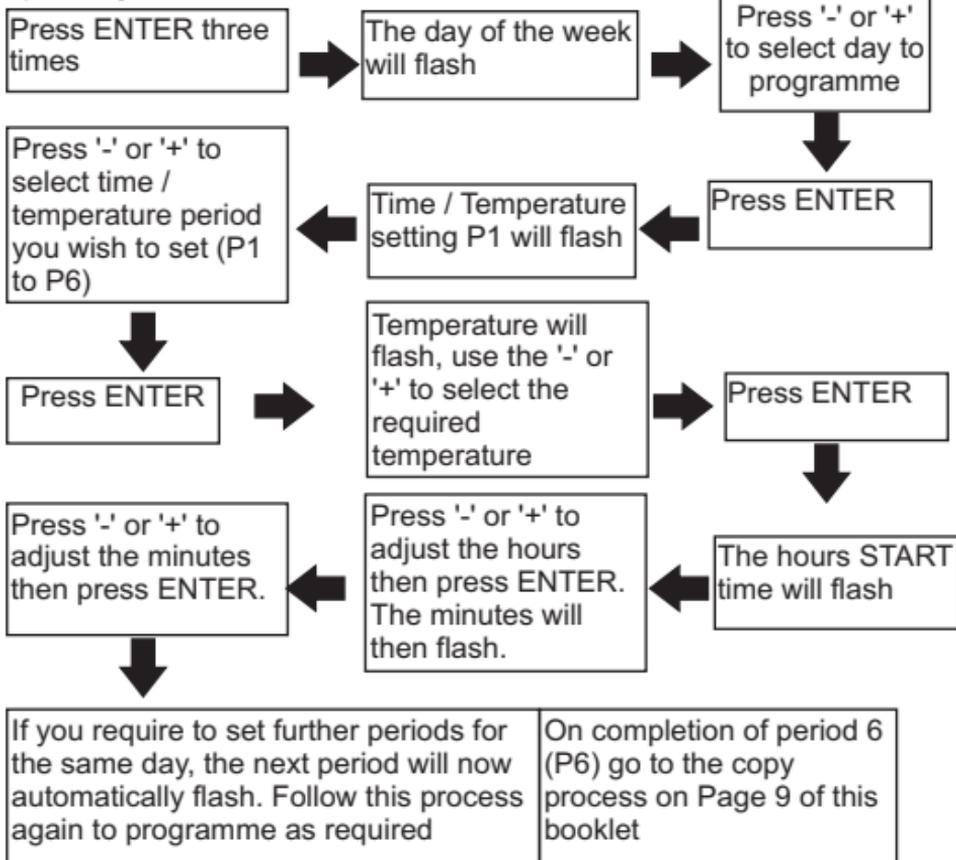
Press '-' or '+' to toggle between the menu options

## MENU OPTIONS

<b>Programme</b>	This allows the user to adjust the different time and temperature settings from the factory default settings shown in the table on page 6. Up to six different temperature levels can be set in any 24 hour period
<b>Standby</b>	This puts the SCS317 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. 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.
<b>Holiday</b>	This puts the SCS317 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 SCS317 will resume normal operation
<b>Time / Date</b>	The SCS317 has a built in clock and calendar. This will require setting on initial installation. If this has not been set on installation please go to Setting the TIME and DATE section on page 12 before continuing
<b>Set Up</b>	Enables the programming of various options outlined in the SET UP MENU on page 13 of these instructions – These should be set on installation.

## Setting the PROGRAMME

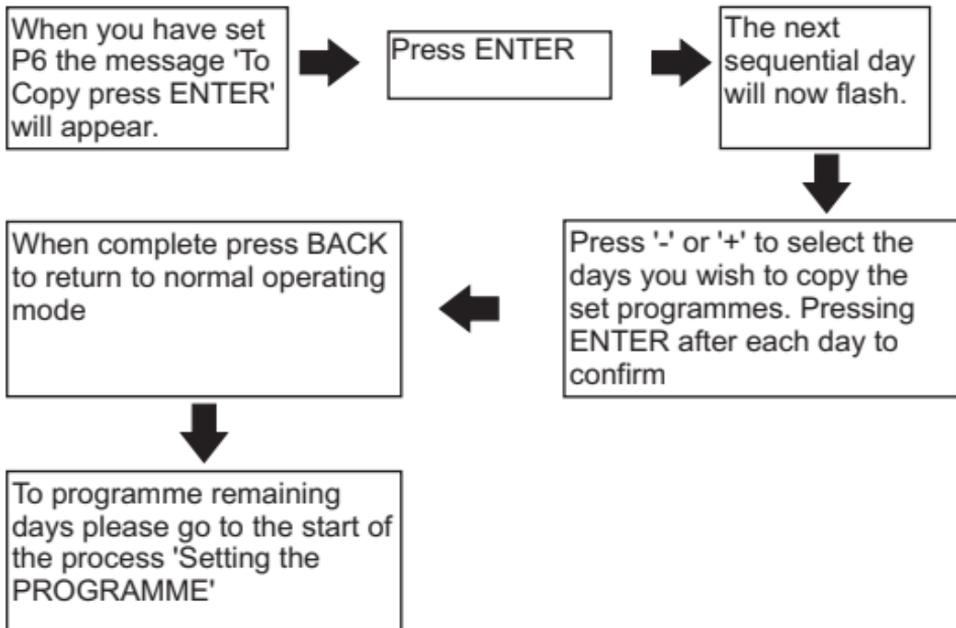
Six time and temperature settings are available in each 24 hour period. Pressing BACK at any time in this process will return you to normal operating mode.



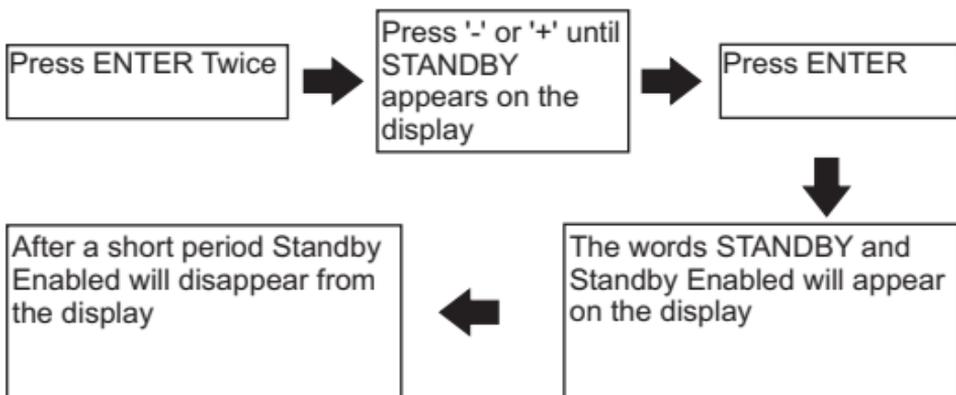
If only two different temperature settings are required in 24 hours then set the first time and temperature using programme one (P1) and the second time and temperature setting using programme setting two (P2). The remaining programmes (P3 to P6) should all be set to the same time and temperature as 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**



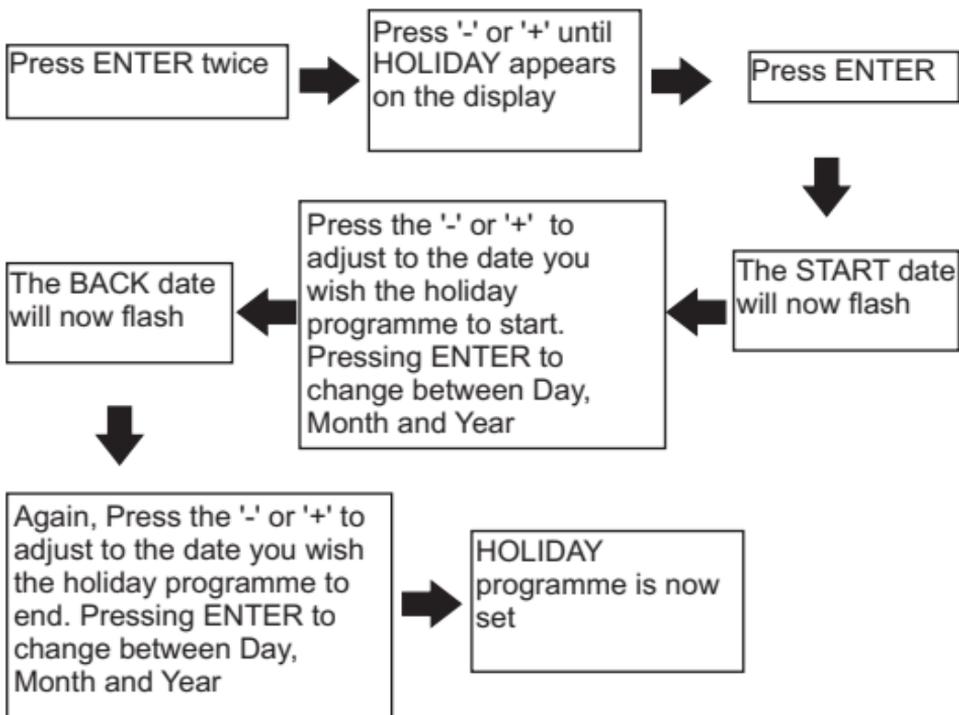
## **Setting the STANDBY**



To exit STANDBY mode, press ENTER TWICE

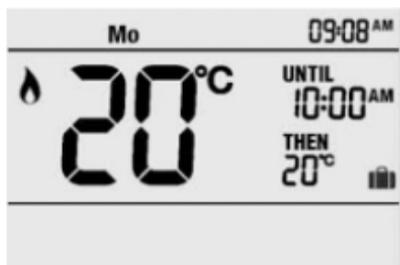
## Setting the HOLIDAY programme

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



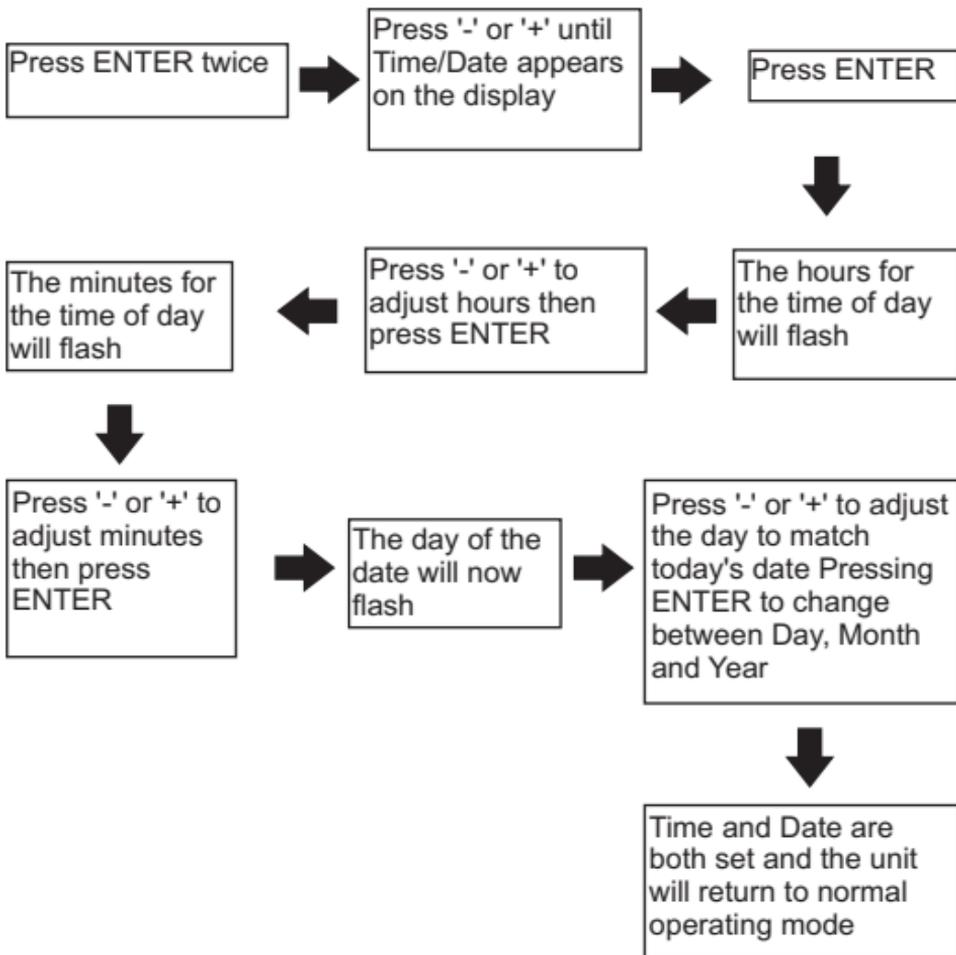
To cancel a set holiday programme in ADVANCE of its activation, re-programme using the above procedure and set the START date and BACK date to today's date.

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

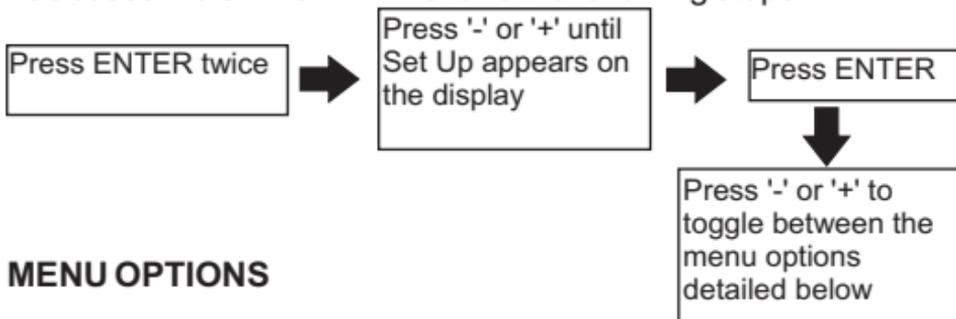
Pressing BACK at any time in this process will return you to normal operating mode



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

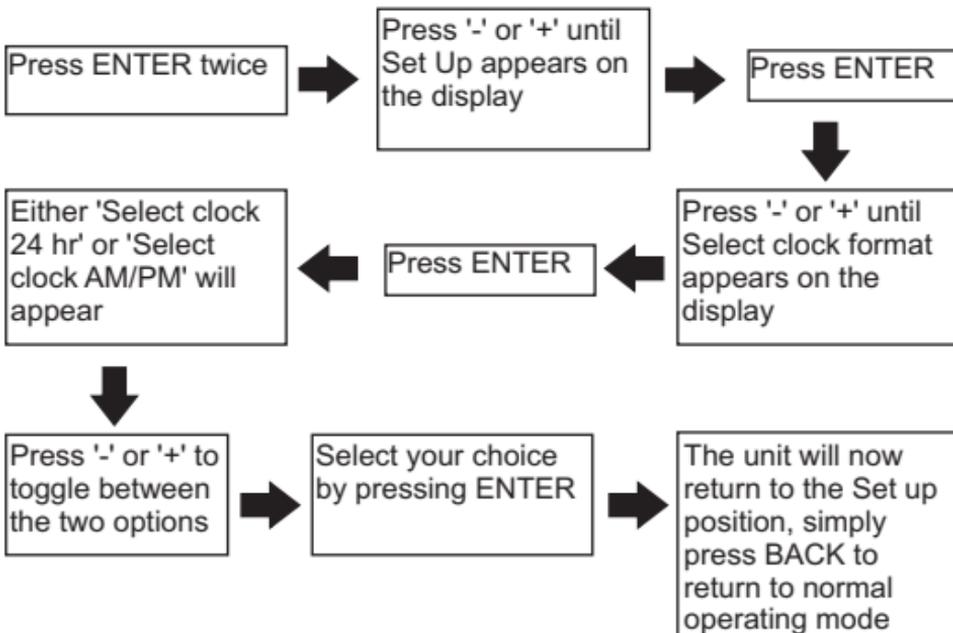
<b>Select clock format</b>	This allows the display to show the time in 24 hour or AM/PM format
<b>Daylight saving</b>	This is the adjustment made in the UK when the clocks go back or forward in the Autumn and Spring. Default setting ON
<b>Standby temperature</b>	This is the temperature setting used when in Standby or Holiday mode (Min 5°C / Max 30°C) In cold weather the heating will activate if the temperature being measured falls below this temperature setting.
<b>Lower temperature limit</b>	This sets the lowest temperature setting the SCS317 will allow to be programmed. The default setting is 5°C
<b>Upper temperature limit</b>	This sets the highest temperature setting the SCS317 will allow to be programmed The default setting is 30°C

## MENU OPTIONS (Contd...)

<b>TPI cycles per hour</b>	This setting helps the TPI energy saving software to operate correctly depending on the type of heating system you have
<b>Optimum start</b>	This calculates the amount of time the SCS317 may need to switch on in advance of the next target temperature setting in order to meet the requirement.
<b>Tamper setting</b>	This setting allows a 4 digit release code to be set up to stop unauthorised adjustments being made in multi occupancy buildings.
<b>Set up Z-Wave</b>	Wireless connection to receiver

## Setting the SELECT CLOCK FORMAT

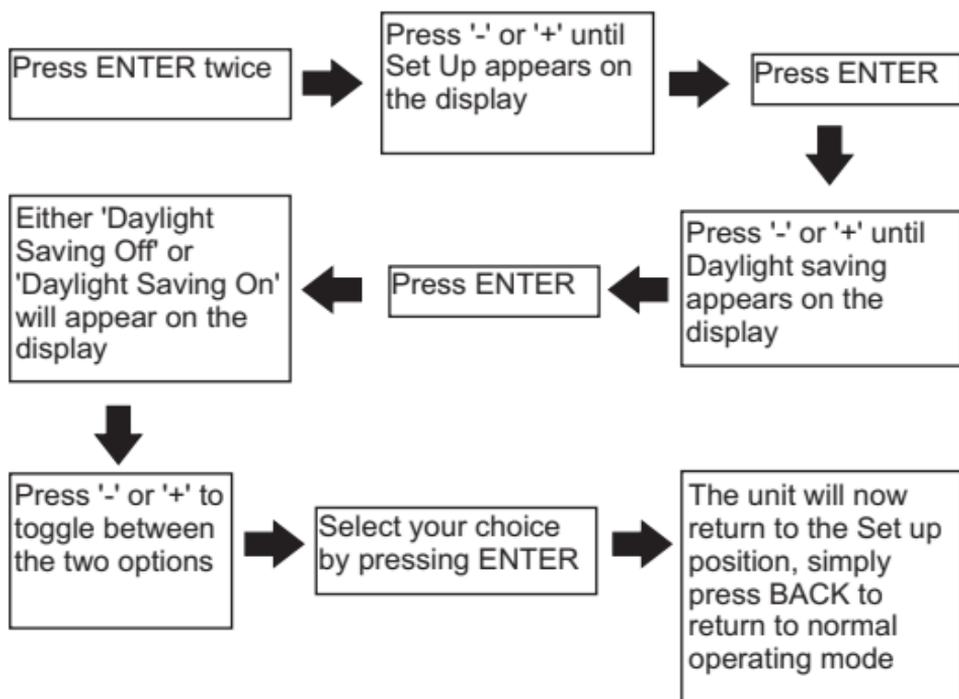
Pressing BACK at any time in the process will return you to normal operating mode



## Setting the DAYLIGHT SAVING

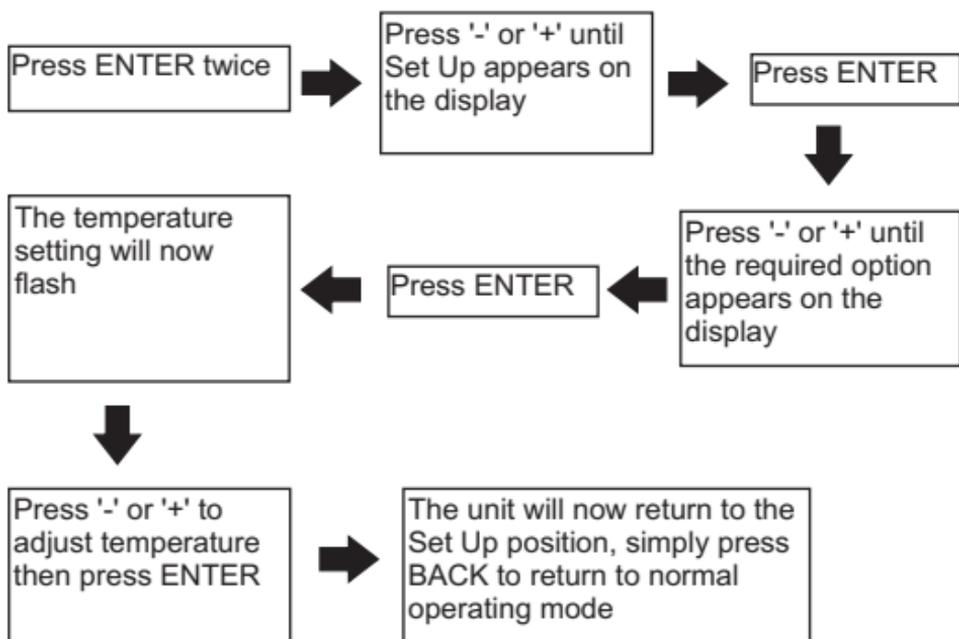
Pressing BACK at any time in this process will return you to normal operating mode

The default factory setting is for the Daylight saving to be ON.



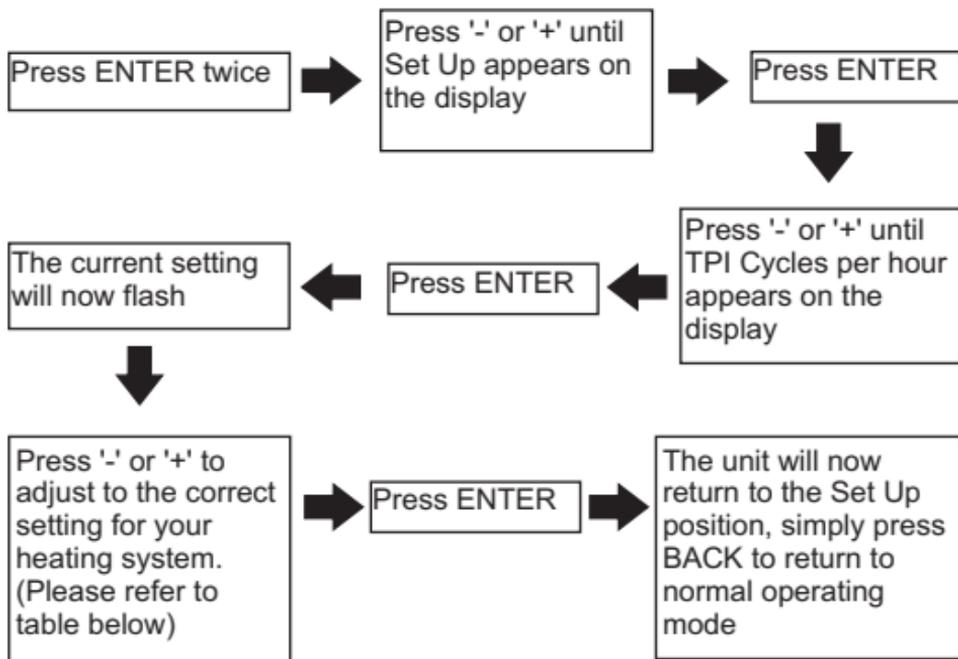
## Setting the STANDBY TEMPERATURE, LOWER TEMPERATURE LIMIT or UPPER TEMPERATURE LIMIT

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



## Setting the TPI cycles

Pressing 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

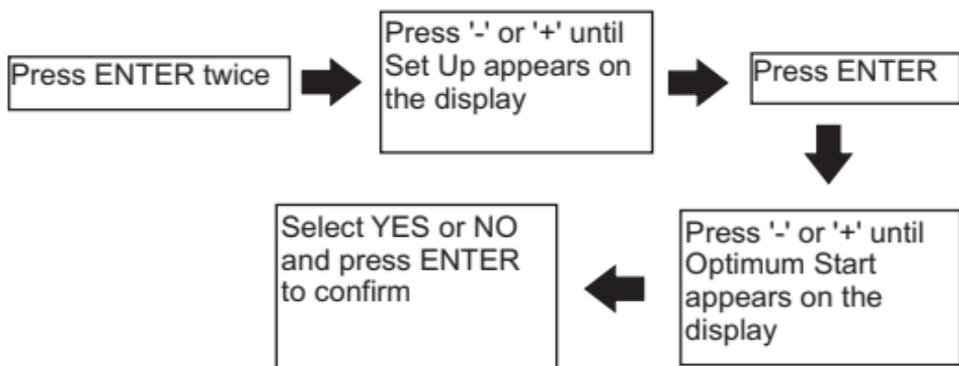
## Setting the OPTIMUM START

This setting will allow the SCS317 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 BACK at any time in this process will return you to normal operating mode



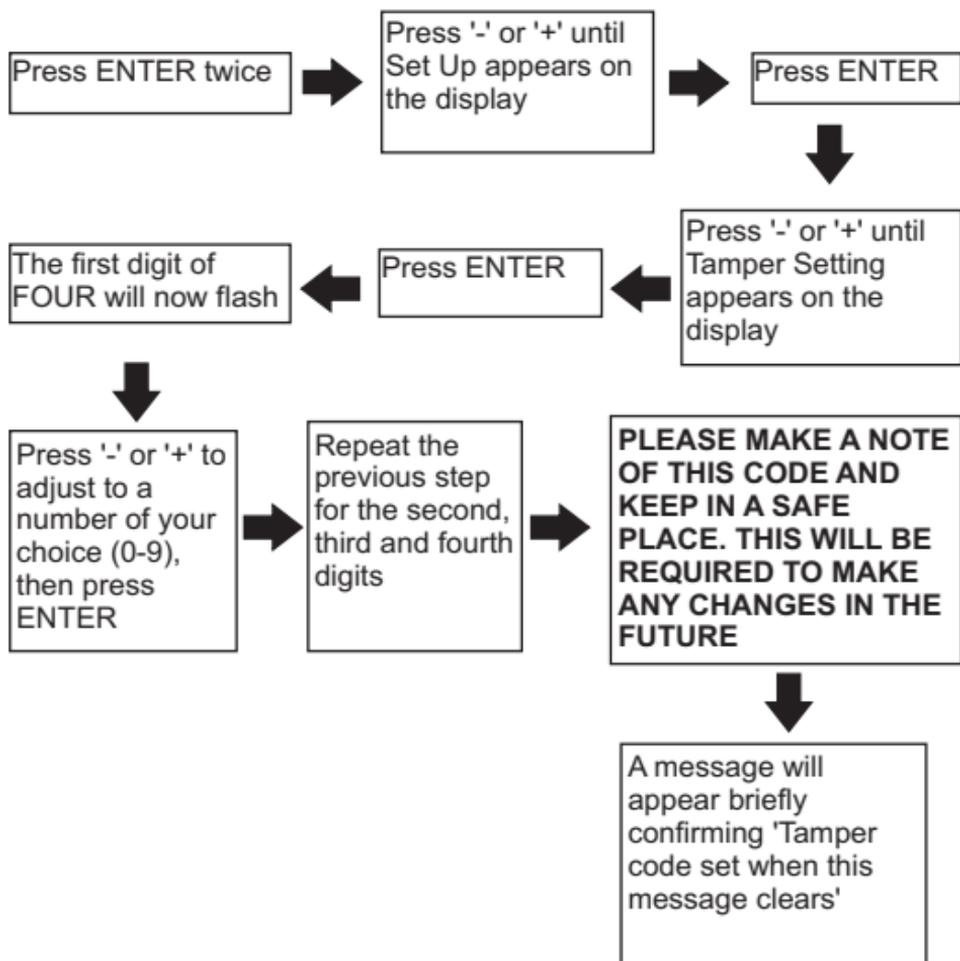
This feature would normally be set by your installer.

## 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.

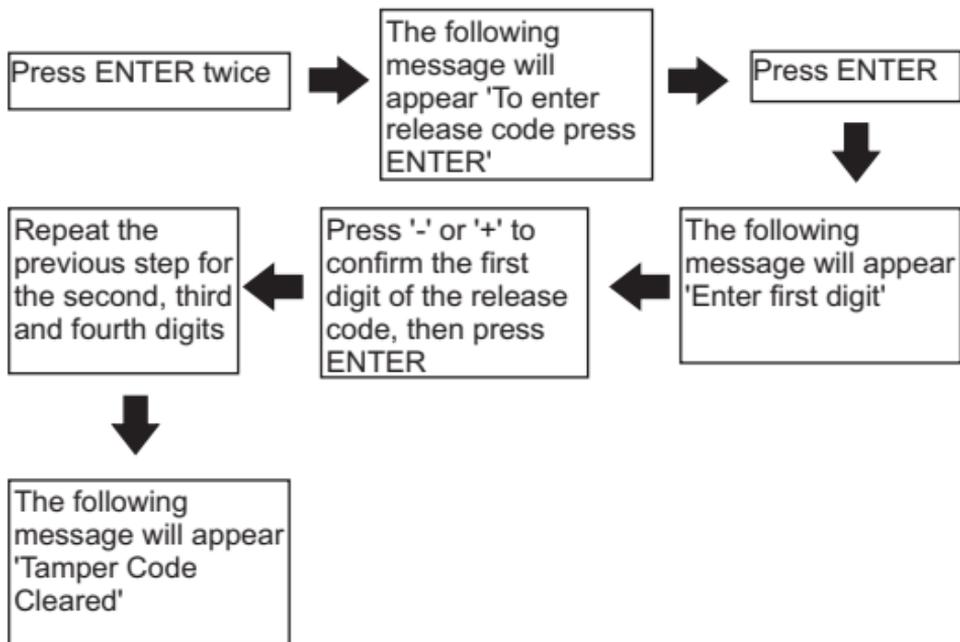
None of the buttons will operate until the security code is entered

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

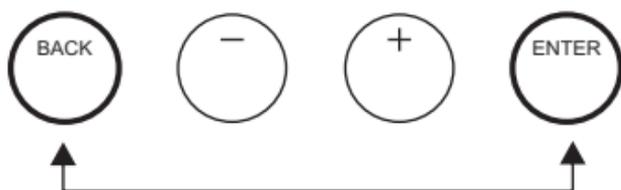


## RESETTING THE SCS317 THERMOSTAT

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 SCS317 to the original factory settings, the Time and Date will remain correct.



## BATTERY

The SCS317 thermostat runs on 2 standard AA (Alkaline) non rechargeable batteries and is designed to give a battery life of approximately two years.

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 SCS317, 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 SCS317 THERMOSTAT** on page 21. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.



**SECURE**

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