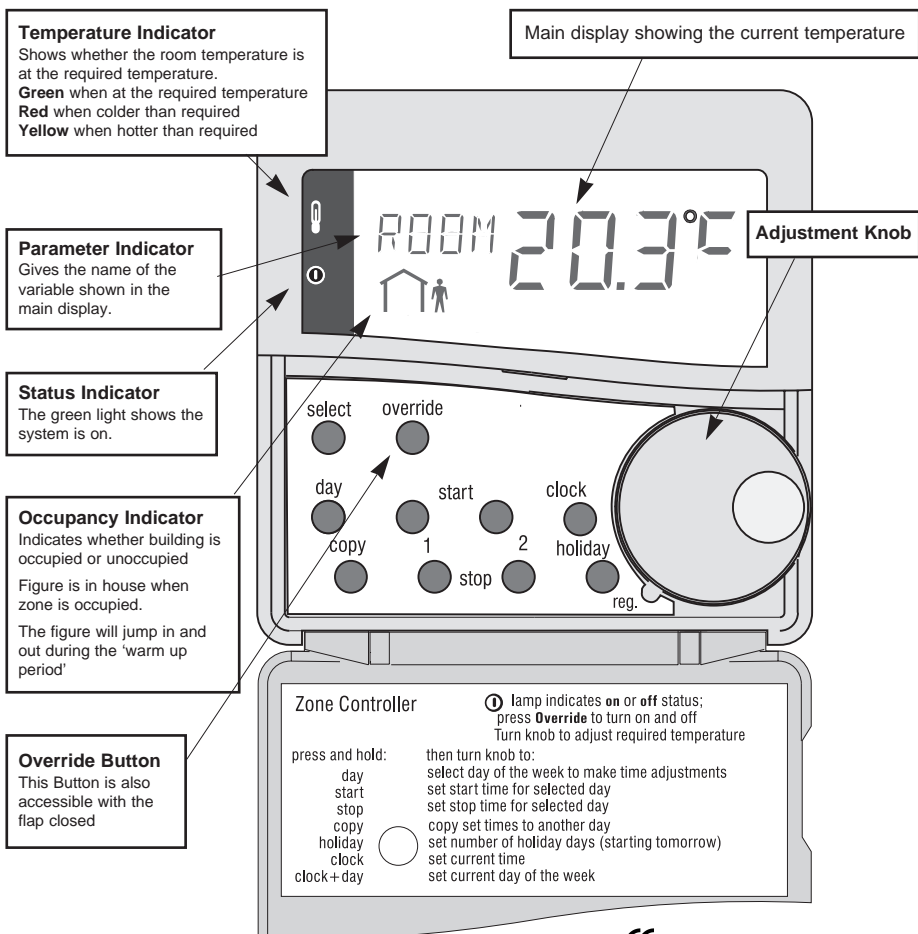


SeaChange Zone Controllers are used to set the start and stop times and temperatures within the building. They are designed with clearly labelled controls, a large display unit showing status and temperature, and are both straight forward and easy for the non-technical to use.

To set up any parameters, press and hold down the relevant buttons and rotate the adjustment knob until the desired value is shown on the display.

Releasing the button sets the parameter to the value shown. The display unit will return to show Room Temperature if no adjustments have been made for a few seconds.



To Override the system ON or OFF

The *override* button is used to turn the system **ON/OFF** - shown by the figure in/out of the house; and so override the automatic time settings.

When *override* is used to turn the Zone **OFF** it will remain off until the next time it is scheduled **ON**.

When *override* is used after the zone has switched off then the Zone will come on for one hour. The *override* button can be pressed again at the end of the hour to extend the occupation by a further hour.

When *override* is used to turn on the system within 3 hours of the next start time then it will stay on until the end of the next time period.

To change the Required Temperature

Rotate the *Adjustment Knob* by one click and the display changes to show the Required Temperature (REQD). Further rotation of the knob changes the Required Temperature, turn clockwise to increase, anti-clockwise to reduce.

The system has a maximum set point of 25° C.

The set point cannot be increased or decreased by more than 2° C at a time.

This is an energy saving feature to prevent excessive temperatures being inadvertently requested.

Start Times

The times referred to as 'start times' are the times from which people will occupy the building not the times that the system will start the heating. The system automatically determines how long the zone will take to heat up, and will learn about the building so that the building reaches the required temperature by the start time. This feature, known as Optimum Start, saves significantly on energy compared with a timeclock or programmer.

To set Start/Stop times

Two occupation periods per day can be set which can be different for each day of the week.

To set Start/Stop times:-

Press and hold and rotate *Adjustment Knob* until parameter indicator shows appropriate day MON-SUN.

Release

Press and hold

Display shows current start time for first occupation period.

Alter time by rotating *Adjustment Knob*. When display shows appropriate time, release - the time is now set.

Set in the same way.

and are used to set the second occupation period of the day. If no occupation period is required for that day then set etc all to 24:00. A period can be made to go past midnight into the next day by setting a stop time after 24.00 eg., 26.30 is 2.30 am the next morning.

To copy settings from one day to another

Set Required times for one day as in previous section

Press and hold rotate *Adjustment Knob* through the other days that require the same settings.

For example you have to set times for Monday and you wish to use the same times for Monday to Friday.

Select Monday using the Day button and set start and stop times as described above.

Press and hold Parameter display shows MON.

Main display shows 01-01.

In the Main display the first digit shows the number of the first day of the copy sequence (01 = Monday)

Rotate the *Adjustment Knob* until parameter display shows FRI,

Main display shows 01-05

Note: day 1 = Monday copies through to day 5 = Friday

Release

The copy process is complete

Today and Tomorrow

The times that are set for the 7 days of the week operate the same every week until changed. The times for Today and Tomorrow only can be changed.

These will only effect the current day and the next day. After that the 7 day settings resume.

To set Today/Tomorrow:-

Press and hold rotate *Adjustment Knob* until TDAY (today) or TMRW (tomorrow) shows in parameter indicator

Note: TDAY is at the beginning of the list of days before MON. TMRW is at the end of the list after SUN

View and change times as described in 'To set Start/Stop times'.

To set Holiday times

This sets the start and stop times that will apply during a holiday period.

Press and hold

Rotate *Adjustment Knob* until HDAY (holiday) shows in parameter indicator.

Note: HDAY is at the end of the list of days after SUN & TMRW.

View and change times as described in 'To Set Start/Stop times'.

Holiday Period

Press and hold

Main display shows 0

Rotate *Adjustment Knob* to show number of days holiday required.

eg. for two weeks holiday set 14 days.

Release

Holiday period starts from next day.

Defaults

The system comes set to the following times:

Mon - Fri: Start 1 0830 Stop 1 1700 Start 2 2400 Stop 2 2400

Sat/Sun: Start 1 0000 Stop 1 0000 Start 2 2400 Stop 2 2400

Required temperature 20° C.

To set Clock/Day of the week

Press

Display shows the current time and day of the week.

Press and hold

Rotate *Adjustment Knob* until current time shows in display.

Release

To change day, Press or together & hold.

Rotate knob until parameter display shows current day (MON-SUN)

To permanently alter the Required Temperature

When the adjustment knob is used to alter the required temperature, the effect is only temporary - at the end of the day it will return to the former temperature required.

To change Required Temperature permanently:-

Press and hold

Rotate Adjustment Knob until Parameter Indicator shows REQD (required)

Main display will show Required Temperature eg, 20° C.

Select occupied state with if necessary.

Press and and hold, rotate *Adjustment Knob* to show new temperature required.

Release buttons

Note: *Adjustment Knob* must be moved within 5 seconds of holding and together or else controller will go into CONFIGURATION mode which is shown by parameter indicator CNFG and screwdriver symbol in the display. If this occurs release and and press them both again to return to normal mode and then try again! If this adjustment is carried out in the unoccupied state then the Fabric Protection Temperature used when out of occupation can be altered. This is preset to 10° C.

OTHER SYSTEM FEATURES

Anti-Condensation/Fabric protection

Outside of occupation times, the system will ensure the temperature does not fall below the anti-condensation setpoint which is preset to 10° C, thus preventing condensation within the building.

Frost Protection

Outside of occupation, if the outside air temperature falls below freezing, the boiler plant is brought on to prevent water/pipe works freezing.

A snowflake symbol appears in the display.