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Underfloor Heating



Touchpad Control



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Installation Procedure



Do

Mount the touchpad at eye level.
Read the instructions fully so you get the best from our product.



Don't

Do not push hard on the LCD screen as this may cause irreparable damage.

This Touchpad is designed to be flush mounted and requires a back box of 35mm (minimum depth) to be sunk into the wall prior to installation.

Step 1

Carefully separate the front half of the Touchpad from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the Touchpad.

Step 2

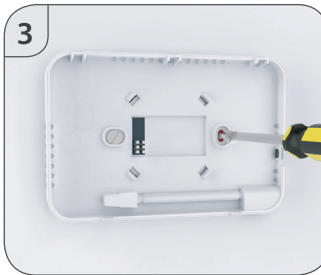
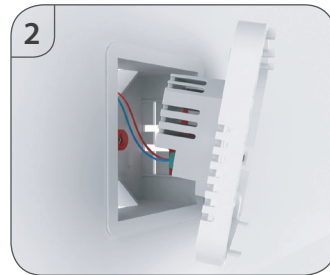
Place the Touchpad front somewhere safe.
Terminate the Touchpad as shown in the diagrams on page 43 of this booklet.

Step 3

Screw the Touchpad back plate securely into the back box.

Step 4

Clip the front of the touchpad back onto the wall mounting plate.





Initial Setup

Adding thermostats to your system

Up to 32 thermostats can be connected to the Touchpad and these are added by performing a network scan.

Prior to performing the scan, a communication number needs to be entered in each of the thermostats on the system.

You should consult the thermostat manual for instructions on how to do this.

Once you have entered a communication number in each thermostat, follow these steps;

- On power up of a new Touchpad, you should see the Network Scan screen.
- This screen shows 32 boxes which represents the 32 possible thermostats on your system.
- To perform the network scan, press Scan.
If the box stays red, it means no thermostat has been found at that location.
If the box turns blue, it means a thermostat has been successfully identified.

If you have previously scanned the network and would like to perform a new network scan, follow these steps;

- Press the Options tab.
- Press the Settings icon
- Press the Network icon
- Press Scan



Statistics

The statistics screen shows the communication rate to each of the thermostats on the system.

This screen can help to identify problems on the network.




Initial Setup Entering a Room Title

A room title of 13 characters can be entered for each room on the system.

To enter a room title follow these steps.

Press the Communication number 

Using the alphanumeric keypad, enter a title.

Press Done to store and return to the network screen 

Repeat as necessary for the other rooms.

When finished, press Done from the Network screen to store and exit 

Note: You must perform a new network scan after adding additional thermostats to your system.

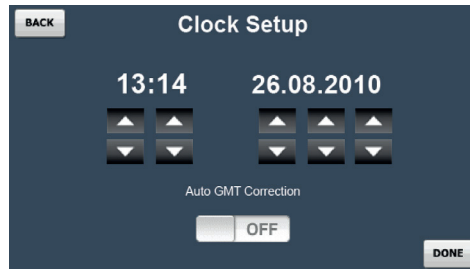


Setting the Clock

To set the clock, follow these steps.

Press the Options tab.

Press the Clock icon 



Here you can set the current time and date and select whether the Touchpad should observe GMT Correction. GMT correction will automatically change the clock on the Touchpad and Thermostats in March and October as the clocks change for Winter/ Summer time.

Press Done to store and exit 



LCD LCD Display

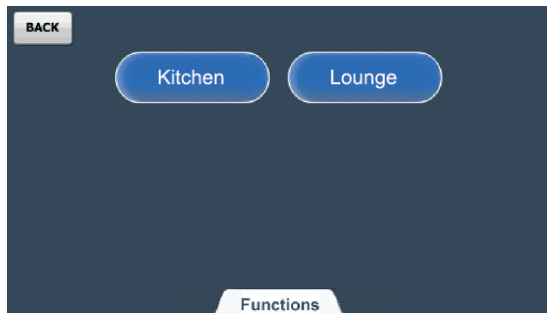
1. My System: Provides access to view and control individual system zones.
2. Summer: Disables the comfort levels when activated and defaults to frost protection.
3. Holiday: Turns off the heating/hotwater for a set period.
4. Quick View: Gives an overview of all stats on the system.
5. Date and Time: Displays current date and time.
6. Options tab: Provides access to Clock, Settings and Power icons.
7. Temperature Hold: Overrides target temperature outside the programme schedule for a set duration.
8. Hot Water Boost: Overrides the timer output to on for a set duration.
9. Away: Places the system into Holiday mode indefinitely.
10. Profiles: Stores a set of comfort levels for a group of thermostats.

My System

Pressing My System will show a list of all rooms on your system.

Rooms in blue indicate that the communication is working correctly.

Rooms in red have a communication fault.




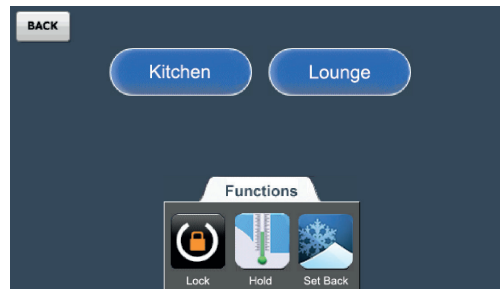
Functions tab —————
The function tab gives access to the global functions such as Lock, Hold and Setback.

My System Locking the Thermostat

This function allows you to lock the keypad on selected thermostats.

To apply a keypad lock follow these steps.

- Press the Functions tab.
- Press the Lock icon 
- Select one or more thermostats by pressing the Zone name. When selected the zone will display green. Alternatively, press the Functions tab to use the Select / UnSelect All function.
- Press Done.





My System Temperature Hold

The temperature hold function allows you to manually override the current operating program for a single or group of thermostats and set a different temperature for a desired period.

- Press the Temperature Hold icon
- Enter the hold temperature and time period
- Press next
- Select one or more thermostats or press the functions tab to select all ...
- Press the Done key to confirm and exit

To cancel temperatures hold on a SINGLE thermostat follow these steps.

- Press the My System icon
- Select a thermostat
- Press the Temp Hold icon
- Press the Cancel Hold key

To cancel a temperature hold on MULTIPLE thermostats follow these steps.

- Press the My System icon
- Press the Functions tab.
- Press the Hold icon
- Press the Cancel Hold key
- Select the thermostats to apply the cancel to



My System Set Back Mode (Frost Mode)

The Set Back function allows you to place individual or multiple thermostats into Set Back Mode (also referred to as Frost Mode).

In this mode, the thermostat will display the frost icon and will only turn the heating on should the room temperature drop below the set frost temperature.

To apply Frost Mode to a single or group of thermostats follow these steps.

- Press the My System icon
- Press the Functions tab.
- Press the Set Back icon
- Select a zone or multiples zones to apply the set back, or alternatively press Functions tab a second time and Select All.
- Room buttons in green will be set back
Room buttons in blue will not be set back
Room buttons in grey are time clocks and cannot be set back
- Press the Done key

Editing the Set Back Temp

The set back temperature range is 7-17°C and is set to 12°C as default.

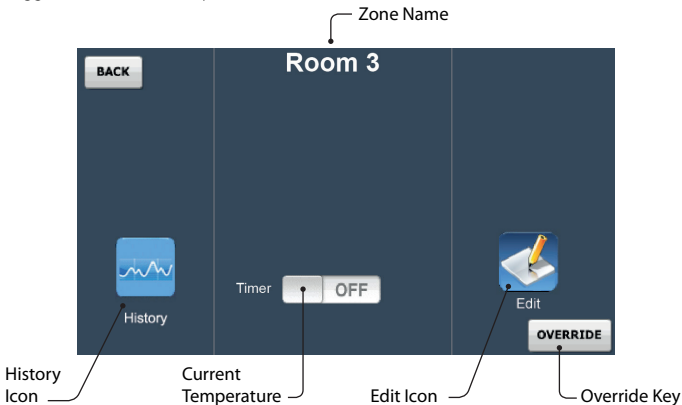
Pressing EDIT from the Set Back screen allows you to adjust this setting and then select which thermostats this should apply to.



Timer Zones

Time clocks can be added to the network to provide control over many appliances, such as lighting, hot water and towel rails.

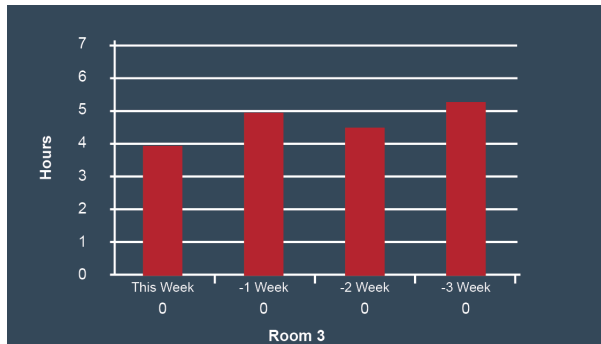
The time clock view screen displays the current status and provides a function to toggle on and off the output.



Timer Zones History

The history function enables you to see the hours run for the last 4 weeks.

This is displayed in a bar chart and gives you an indication of which zones are using the most energy.





Timer Zones Editing the Switching Times

The Edit icon enables you to program the switching times for the selected time clock.

Time clocks provide Weekday/Weekend or 7 Day Programming options.

If the time clock shows Weekday/Weekend it is operating in 5/2 day mode, and if it shows each day of the week it is operating in 7 day mode.

This mode can be changed on the time clock, and will be updated automatically on the Touchpad. Please consult the time clock manual for instructions on how to change this.

There are 4 settings per day, these are called Wake, Leave, Return and Sleep.

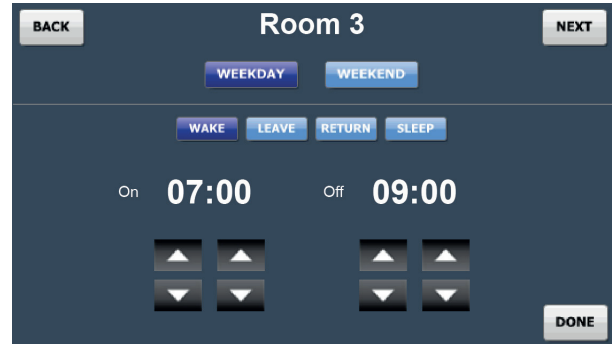
For each setting a Timer ON and a Timer OFF time can be programmed.

To program the switching times follow these steps.

- Press the Edit icon
- Select a day or period Weekday
- Select a setting to program Wake
- Edit the Timer ON and Timer OFF times using the arrow keys
- Times should be entered in 24 hour format.
For unused periods set the time to -- : -- and the time clock will ignore the setting.
- Repeat these steps for the remaining days/periods.
- Press the Done key to confirm and exit Done

Note: For Weekday/Weekend programming, the 4 switching times are the same for all weekdays but can be different for the weekends.

For 7 Day programming, each day can have 4 different switching times.



Copy Settings

The Copy key enables you to copy the programmed switching times to other time clocks that are operating in the same mode (5/2 or 7 day).

To Copy and apply switching times follow these steps.

- Press the Copy key Copy
Zones that can be selected will be blue and will turn green when selected.
Zones in grey cannot be selected.
- Press the Done key to confirm and exit Done

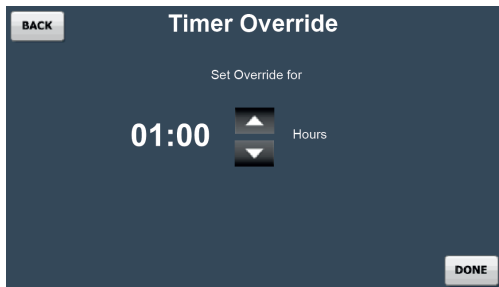


Timer Zones Override

An override function is available on the time clock, enabling you to override the output for a number of hours.

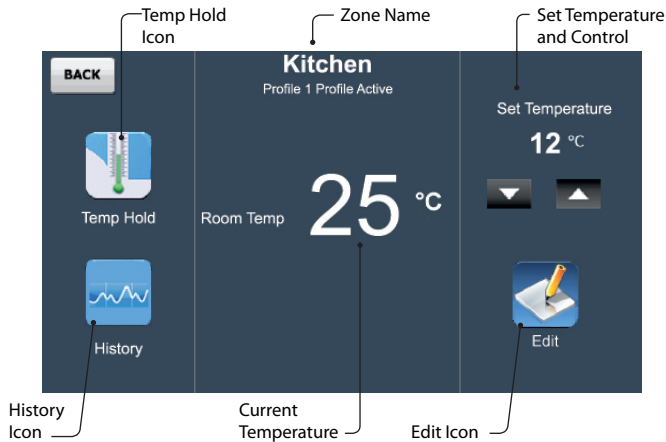
To apply an override follow these steps.

- Press the Override key
- Using the arrow keys set the override duration
- Press the Done key



Programmable Zones

Programmable zones show the actual room temperature, and if applicable a toggle function to display the floor temperature.








Programmable Zones Temperature Hold (Individual Zone)

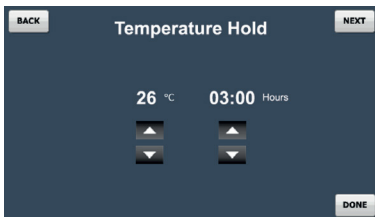
The temperature hold function allows you to manually override the current operating program of a specific zone and set a different temperature for a desired period

To set a hold a temperature for a group of thermostats, use the Hold function from the main screen.

To set a hold time follow these steps.

- Press the Temp Hold icon 
- Set the Hold temperature and Hold time using the arrow keys 
- Press the Done key to confirm and exit 

The thermostat and zone screen will show the hold time remaining.



To cancel a hold in operation, press Temp Hold icon and then the Cancel Hold key ..



Programmable Zones History

The history function on a programmable zone enables you to see the hours run as a and temperature profile for the last 4 weeks.

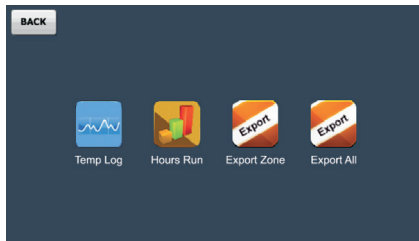
This is displayed in a bar chart and line graph and provides an indication of which zones are using the most energy.

The information can additionally be exported to your PC.

There are two export methods:

- Export All will export the temperature profile for all zones.
- Zone Export will export just the selected zone.



The exported data is saved to csv format and can be edited in Excel.





Programmable Zones Temperature Control

The set temperature can be adjusted by using the Up/Down keys.

- Use the Up/Down keys to select a temperature 
- Press the Apply key 

Note: This override will be maintained until the next programmed comfort level.



Programmable Zones Editing the Comfort Levels

The Edit icon enables you to program the comfort levels for the selected thermostat.

Thermostats provide Weekday/Weekend or 7 Day Programming options.

If the thermostat shows Weekday/Weekend it is operating in 5/2 day mode, and if it shows each day of the week it is operating in 7 day mode.






This mode can be changed on the thermostat, and will be updated automatically on the Touchpad.

Please consult the thermostat manual for instructions on how to change this.

There are 4 settings per day, these are called Wake, Leave, Return and Sleep.

For each setting a start time and temperature can be programmed, this temperature will be maintained until the next comfort level.

To program the comfort levels follow these steps.

- Press the Edit icon 
- Select a day or period 
- Select a setting to program 
- Edit the time and temperature values using the Up/Down keys 
Times should be entered in 24 hour format.
For unused periods set the time to -- : -- and the thermostat will ignore the setting.
- Repeat these steps for the remaining days/periods.
- Press the Done key to confirm and exit 



Note: For Weekday/Weekend programming, the 4 comfort levels are the same for all weekdays but can be different for the weekends.

For 7 Day programming, each day can have 4 different comfort levels.

Copy Settings

The Copy key enables you to copy the programmed comfort levels to other thermostats that are operating in the same mode (5/2 or 7 day).

To Copy and apply comfort levels follow these steps.

- Press the Copy key 
Zones that can be selected will be blue and will turn green when selected.
Zones in grey cannot be selected.
- Press the Done key to confirm and exit 



Programmable Zones with Hot Water Output

These type of zones operate the same as Programmable Zones but have an additional output for controlling a hot water cylinder.

A toggle function allows you to manually turn the hot water on and off.



Hot Water Toggle



Programmable Zones with Hot Water Output Editing the Hot Water Switching Times

In addition to editing the comfort levels, hot water switching times can be edited.

There are 4 settings per day, these are called Wake, Leave, Return and Sleep.

For each setting an ON time and an OFF time can be programmed.

To program the hot water switching times follow these steps.

- Press the Edit icon
- Press the Hot Water key
- Edit the Timer ON and Timer OFF times using the arrow keys
- Times should be entered in 24 hour format.
For unused periods set the time to -- : -- and the time clock will ignore the setting.
- Repeat these steps for the remaining days/periods.
- Press the Done key to confirm and exit

Note: For Weekday/Weekend programming, the 4 switching times are the same for all weekdays but can be different for the weekends.

For 7 Day programming, each day can have 4 different switching times.

Copy Settings

The Copy key enables you to copy the programmed switching times to other thermostats that are operating in the same mode (5/2 or 7 day).

To Copy and apply switching times follow these steps.

- Press the Copy key
- Zones that can be selected will be blue and will turn green when selected.
Zones in grey cannot be selected.
- Press the Done key to confirm and exit



Holiday

The holiday function reduces the set temperature in selected zones to the frost protection temperature setting.

Thermostats will maintain this frost protection temperature and time clocks will maintain TIMER OFF for the duration of the holiday.

When the holiday is complete the specific zones will then automatically return to the program mode.

Up to 8 holidays can be scheduled using the Touchpad

- To program a holiday follow these steps;

- Press the Holiday icon
- Press the Add key
- Using the Up/Down keys, enter the START date and time of the holiday
- Using the Up/Down keys, enter the FINISH date and time of the holiday
- Press the Next key
- Select which zones the holiday is applied to
- Zones in Green are selected, and those in blue are not.
- Press the Next key
- Enter a holiday title using the keypad. This title can be 13 characters in length.
- Press Done to store and exit

Should you need to edit a scheduled holiday, follow these steps.

- Press the Holiday icon
- Select the holiday you wish to edit.
- Press the Edit key
- Using the Up/Down keys, adjust the holiday start/finish date and time
- Press the Next key
- Select which zones the holiday is applied to
- Confirm the title and press Done the done key

Holiday Status

The holiday screen indicates the scheduled holidays.

Once the holiday starts, this screen will display that the holiday is active.

Holiday	
<div> <div>BACK</div> <div>ADD</div> </div>	
Holiday Name	State
Holiday 1	Scheduled
<div> <div>DELETE</div> <div>EDIT</div> </div>	



Summer Mode

The Touchpad Summer mode offers a quick and easy way to place selected heating zones into set back without having to reprogram the comfort levels. The hot water times will not be effected during summer operation.

The set back temperature can be set on each thermostat between 07-17°C or this can be done from the Touchpad (See page xx)

As an indication, the heating zone screens will display the frost icon whilst the summer mode is active. As a default, all heating zones will follow the summer condition, but you can deselect certain zones if required. The setup should be as follows....

- Press Summer
- Zones buttons in green (selected by default) will follow the summer mode and zones in blue will not.
- Press Zones to deselect any thermostat/s that you don't want to apply summer to.
- Press Done.

To cancel summer mode....

- Press Summer.
- Select Functions tab.
- Press Unselect All.
- Select Done.



Quick View

The Quick View screen gives an overview of all the zones on your system.

The zone temperatures as well as the output status are displayed.






You can use this screen to quickly access any zone on your system by first highlighting the zone and then pressing Detail.






Temperature Hold (Multiple Zones)

The temperature hold function allows you to manually override the current operating program of multiple zones and set a different temperature for a desired period

To set a temperature hold follow these steps.

- Press the Temp Hold icon 
- Using the Up/Down arrow keys, set the hold temperature and duration ... 
- Press the Next key 
- Select which zones to apply the hold to 
- Press the Done key 

To cancel a hold in operation follow these steps.

- Press the Temp Hold icon 
- Press the Cancel Hold key 
- Select which zones should have the temperature hold function canceled.
Zones in grey do not have a hold in operation.
Zones in green will have the hold canceled and those in blue will remain active.
- Press the Done key 






Hot Water Boost

If you have thermostats with hot water function on your system, you can override the hot water output.

During an override, the thermostat will flash TIMER ON / HW ON depending on the model of your thermostat.

To use this function, follow these steps;

- Press the HW Boost icon 
- Using the Up/Down arrow keys enter the boost period 
- Press the Done key 

To cancel, repeat the steps reducing the boost time to 00 hours.

Once the boost period has ended, the zone will revert back to its programmed setting.



Home / Away Mode





Away mode places selected zones into setback mode indefinitely for use when you are unsure when the building will next be occupied.

The zones will control to the setback temperature during this time and the hot water will be turned off.

Pressing Home will cancel the Away function, and the zones will revert back to their programmed level.

As a default, all heating zones will follow the Away mode, but you can deselect certain zones if required.

To place the system in away mode follow these steps.

- Press the Away icon 
- Toggle the switch to the on position.
- Press the Edit key 
- Select zones to apply the Away mode to 
Zones buttons in green will follow the Away mode and zones in blue will not
- Press the Done key 



Groups

Using the Group function, zones can be assigned into groups allowing them to be collectively controlled. Using the Profiles function (see page 35), predefined settings can be quickly applied to all zones within a group.

Up to 8 groups can be setup in the Touchpad. To create a group, follow these steps.

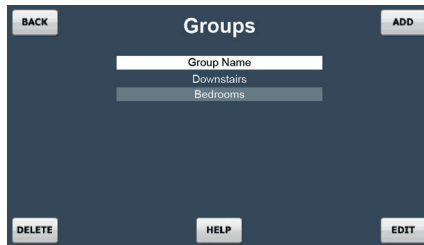
- Press the Profiles icon
- Press the Groups icon
- Press the Add key
- Select the zones to be added to the group
- The zone list is filtered based on the first selection and the following restrictions:

Weekday/Weekend or 7 Day Mode: You can only group thermostat/time Clocks that are in the same mode.

Heating Only Group: Programmable thermostat and programmable thermostats with hot water output can be grouped, allowing you to create a heating profile.

HW Timer Group: Programmable Thermostats with Hot water output can be grouped with timers, allowing you to create a HW Timer Profile.

- Press the Next key
- Enter a group title using the keypad.
- Press the Done key



To edit a group, follow these steps.

- Press the Profiles icon and then the Groups icon
- Select a Group to edit.
- Press the Edit key
- Select zones to add/remove from the group
- Press the Next key
- Confirm the group title and press the Done key

To delete a group, follow these steps.

- Press the Profiles icon and then the Groups icon
- Select a Group to delete.
- Press the Delete key







Profiles

At least 1 Group must be created (see page 33) before the Profile can be accessed.

Profiles are predefined comfort levels and switching time settings that can be applied to groups (see page 33). When a profile is run, the settings are sent immediately to the devices within the profile group overwriting their current settings.

For example, a shift working with a varying schedule could create 2 profiles - Day Shift and Night Shift. By having two profiles stored it is easy to quickly switch the heating system between programs when shift patterns change.

To create a profile, follow these steps.

- Press the Profiles icon and then select the Profiles icon again  
- Press the Add key 
- Select a group the profile should apply to.
See page 33 for information on how to create a group.
- Press the Next key 

The type of profile created is driven by the type of thermostats in the group.

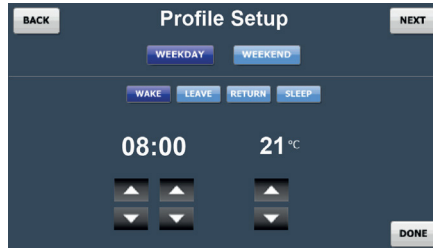
Heating Profile (5/2 Day Mode): This type of profile allows you to program comfort levels for the Weekday/Weekend. See pages 23-24 for programming instructions.



Heating Profile (7 Day Mode): This type of profile allows you to program comfort levels for each day of the week. See pages 23-24 for programming instructions.

Hot Water/Timer Profile (5/2 Day Mode): This type of profile allows you to program switching times for the weekday/weekend. See pages 17-18 (time clock) and 25-26 (hot water) for programming instructions.

Hot Water/Timer Profile (7 Day Mode): This type of profile allows you to program switching times for each day of the week. See pages 17-18 (time clock) and 25-26 (hot water) for programming instructions.

- Program the profile following the instructions on pages 17-18, 23-24 or 25-26.



- Press the Next key 
- Enter a profile title using the keypad and press done 







Profiles

At least 1 Group must be created (see page 33) before the Profile can be accessed.

Profiles are predefined comfort levels and switching time settings that can be applied to groups (see page 33). When a profile is run, the settings are sent immediately to the devices within the profile group overwriting their current settings.

For example, a shift working with a varying schedule could create 2 profiles - Day Shift and Night Shift. By having two profiles stored it is easy to quickly switch the heating system between programs when shift patterns change.

To create a profile, follow these steps.

- Press the Profiles icon and then select the Profiles icon again  
- Press the Add key 
- Select a group the profile should apply to.
See page 33 for information on how to create a group.
- Press the Next key 

The type of profile created is driven by the type of thermostats in the group.

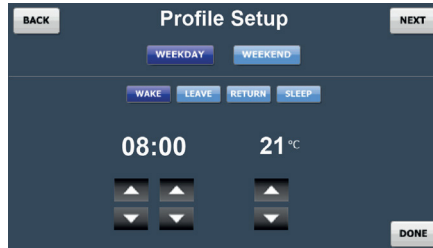
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Hot Water/Timer Profile (7 Day Mode): This type of profile allows you to program switching times for each day of the week. See pages 17-18 (time clock) and 25-26 (hot water) for programming instructions.

- Program the profile following the instructions on pages 17-18, 23-24 or 25-26.






- Press the Next key 
- Enter a profile title using the keypad and press done 



Touchpad Settings Security Setup

The Touchpad has a security function that allows you to limit access, so for example zone settings cannot be altered without entering a code.

To enable this function, follow these steps.

- Press the Options tab.
- Press the Settings icon 
- Press the Security icon 
- Move the toggle to ON and then set a security code.
- Press the Done key 

Note: If you forget or misplace your user code, contact your equipment supplier for assistance.



Touchpad Settings System Information

- Press the Options tab.
- Press the Settings icon 
- Press the System Info icon 

This screen displays the current version of your Touchpad



Touchpad Settings Master Timer

The master timer function can only be used with non-programmable thermostats. During setup, you can select which zones should follow these times.

During the programmed time, the thermostat will control to its set temperature and then outside of the programmed time it will control to its setback temperature



Touchpad Settings Display Screen

The brightness control enables you to control the brightness level of the Touchpad display.

The calibration function can be used to recalibrate the touchscreen.

This is factory set and should not need to be adjusted.



Touchpad Settings Delete History

The Touchpad can store 4 weeks of data per zone. To delete the history, use the delete history function.



System Set Back Temp

The set back temperature is used when a holiday, away or set back function is active.

The set back temperature range is 07-17°C and is set to 12°C as default.

The set back temperature function enables you to set this for individual or all thermostats.



System Max Floor Limit

The max floor limit is used on thermostats with a floor limiting sensor and is used to protect the floor surface from overheating.

The floor limit range is 20-45°C and is set to 28°C as default.

The floor limit temperature function enables you to set this for individual or all thermostats with floor limiting function.



System System Reset

The system reset function will delete all thermostats and history information in your system.

After a system reset, you will need to perform a new network scan to add thermostats to your system.



System Firmware Update

The Touchpad firmware can be updated as and when new features are introduced.

Check the latest version by visiting the Support Section on www.heatmiser.com

To perform the update the Touchpad has to remain powered up.

Connect the Touchpad to a laptop using the USB cable provided.

Extract the TFT.BIN file from the download ZIP file.

Copy and paste the TFT.BIN file onto the Touchpad drive on the PC.

You now need to follow these steps.

- Press Options TAB.
- Press the Settings icon
- Press the System icon
- Press the Firmware Update icon
- Press the Done key



The TFT will now update and the display will reset.

To confirm the update was successful, check the version number in the Systems Info Tab.



Notes

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and run across the entire width of the page. There are no margins, text, or other markings present.

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