

# heatmiser®



Model: Touch-RF

## Model: Touch-RF





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## What is a Programmable Room Thermostat?

A programmable room thermostat is both a programmer and a room thermostat.

The programmer allows you to set “On” and “Setback” periods to suit your own lifestyle. The 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 this 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 and preferences.

Setting a room thermostat to a higher temperature will not make the room heat up any faster. How quickly the room heats up depends on the design & size of the heating system.

Similarly reducing the temperature setting does not affect how quickly the room cools down. Setting a programmable room thermostat to a lower temperature 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 the room thermostat to a low temperature – say 18°C , and then turn it up by 1°C each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting 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 choose 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.

You are able to temporarily adjust the heating program by overriding or using the temperature hold feature.

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 also prevent the thermostat from working properly.



## Installation Procedure



### Do

Mount the thermostat 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.

Do not install near to a direct heat source as this will affect functionality.

If using the desk stand, ensure the thermostat is away from heat sources.

### Wall Mounting:

#### Step 1

Fix the wall plate to the wall.

#### Step 2

Push the thermostat onto the wall plate.

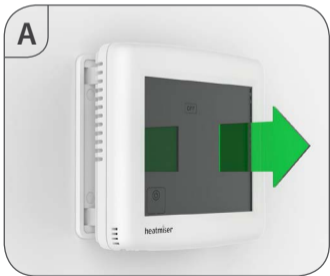
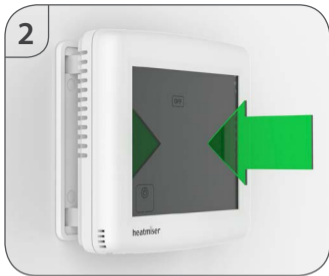
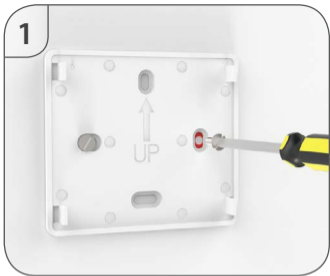
### Desk Stand:

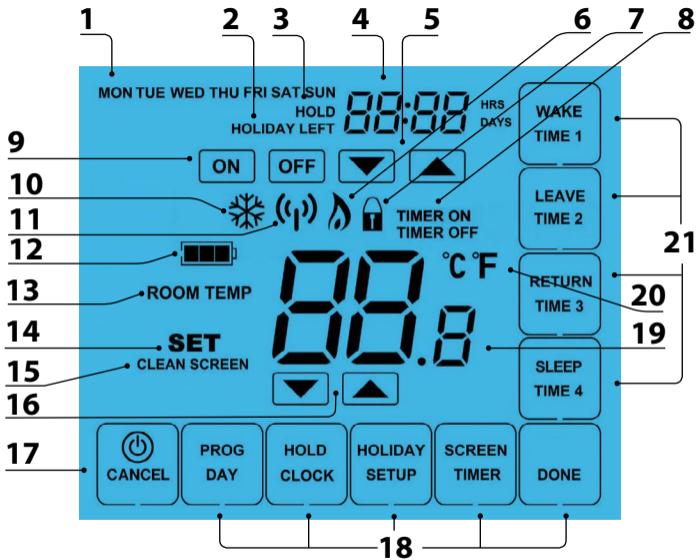
#### Step A

Remove the thermostat from the wall plate.

#### Step B

Release the desk stand.















1. Day Indicator - Displays the day.
2. Holiday Indicator - Displayed when the programmer is in Holiday mode.
3. Temperature Hold - Displayed when the programmer is in Hold mode.
4. Clock - Displays time in normal operation, time left in hold or days left in holiday mode.
5. Up/Down Keys - Increase or decrease values shown on top digit group.
6. Flame Icon - Displayed when the heating is ON and flashes when the Optimum Start function is in operation.
7. Keypad Lock Icon - Displayed when the keypad is locked.
8. Timer On / Timer Off - Indicates the hot water status.
9. On/Off Keys - Used to program the hot water times.
10. Frost Icon (Heating Off) - Displayed when the heating is switched off and system is protecting against frost only.
11. RF Icon - Flashes when the thermostat communicates with the receiver.
12. Battery Icon - Indicates current battery charge level.
13. Room Temp - Indicates the current temperature sensor mode.
14. Set - Indicates when changes are being made to programs or temperature set points.
15. Clean Screen - Freezes screen temporarily to enable cleaning.
16. Up/Down Keys - Increase or decrease values shown on bottom digit group.
17. Power: Single press to enable/disable frost protection or press and hold to turn off display. Cancel: used to exit setup/program operations.
18. Setup/Programming Keys - Used to navigate setup options.
19. Current Temp - Indicates the current sensor temperature.
20. Units of Temperature - Degrees Celsius or Fahrenheit.
21. Comfort Level Selection Keys - Used in comfort level setup (see page 14).



## Pairing With the RF-Switch Receiver

### With the thermostat turned ON:

- Press PROG then SETUP .....  
- Press the Up key at the top of the screen to select feature 06 .....   
*The options within feature 06 are: 00 = UH8-RF or 01 = RF-Switch receiver.*
- Use the Up/Down keys (centre screen) to set feature 06 to 01 (RF-Switch) .....  
- Press "DONE" to confirm setting ..... 
- The heating output can be paired to CH 1 or Boiler CH depending on which you have chosen. If the thermostat is set to heating and hot water mode the hot water output will automatically pair to channel 2 HW.
- On the RF-Switch receiver, press and hold the CH1 Pairing button (if a valve is used) or Boiler CH Pairing button until the Comms LED flashes.
- With the thermostat turned ON, press & hold the "SCREEN" button for 5 seconds ..... 
- The thermostat will send a signal and show "PAIR RF" & the RF icon in the display ..... 
- If pairing is successful, the Comms LED on the RF-Switch receiver will go out.

If pairing is unsuccessful, check features 06 to 07 have been configured correctly. To eliminate a possible signal issue, reposition the thermostat closer to the receiver and repeat the pairing process again.



## Pairing With the UH8-RF Wiring Centre

On the UH8-RF, take note of the numbers set on the rotary switches (UH8-RF ID numbers 01-99).













Each UH8-RF on the system needs to have a different ID number.



Example: Rotary Switch showing ID No. 99.

### Set your first UH8-RF to 01

#### With the thermostat turned ON:

- Press PROG then SETUP .....  
- Press the Up key at the top of the screen to select feature 06 .....   
The options within feature 06 are: 00 = UH8-RF or 01 = RF-Switch receiver.
- Use the Up/Down keys (centre screen) to set feature 06 to 00 (UH8-RF) .....  
- Press the Up key at the top of the screen to select feature 07 ..... 
- Use the Up/Down keys to set the large digits (centre screen) to the board address of the UH8-RF. This is the number set on the UH8-RF rotary switches .....  
- Press the Up key at the top of the screen to select feature 08 ..... 
- Use the Up/Down keys (centre screen) to select which zone number on the UH8-RF you are assigning the thermostat to. (01-08) .....  
- Press the Up key at the top of the screen to select feature 09 ..... 

- Use the Up/Down buttons to specify whether the thermostat is controlling underfloor heating or radiators  
(00 = Underfloor heating, 01 = Radiators) .....
- Press the DONE key .....



You will now see the flame icon and after a few seconds the RF symbol will appear. The assigned zone on the UH8-RF should now be active.



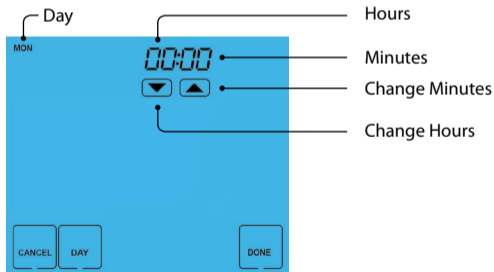
If the output on the UH8-RF is not activated, reduce the distance between the Touch-RF and the UH8-RF and check features 06-09 have been setup correctly, then repeat the above process.



## Setting the Clock

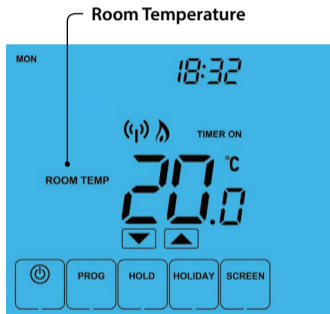
To set the clock, follow these steps.

- Press PROG .....
- Press CLOCK .....
- Use the Down key to set the hours .....
- Use the Up key to set the minutes .....
- Use the Day key to set the day of the week .....
- Press DONE to confirm and exit .....

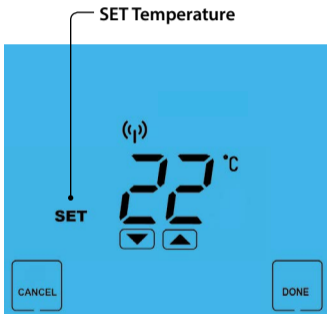


# Temperature Display

The temperature display information is driven by two different inputs; the sensor measurement and the target temperature you have set.



This is the current room temperature.



This is the temperature you are trying to achieve in your home.

Timer On / Timer Off - This is the status of the hot water output.



## Comfort Levels Explained

Comfort levels allow you to set different temperatures throughout the day. For example, you may want the home warm in the morning when you are getting ready for work, cooler during the day when the house is unoccupied and then warmer in the evening when you are home relaxing.

The thermostat offers 3 programming options:

5/2 Day Programming - 4 levels for the weekdays and 4 different levels for the weekend.

7 Day Programming - 4 levels for each day.











24 hours - 4 levels 7 days a week.

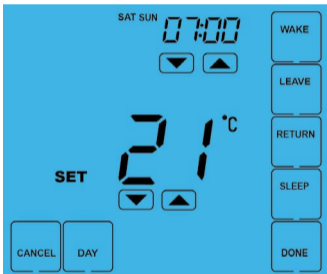
*See pages 25-26 for details on how to switch between these modes.*

**Tip!** If you don't want to use all of the comfort levels, just set the time to --:--

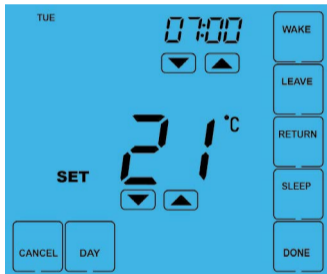
Default comfort levels are pre-programmed but you can change them easily.

<b>Weekday Level</b>	<b>Time</b>	<b>Temp</b>
Wake	07:00	21°C
Leave	09:00	16°C
Return	16:00	21°C
Sleep	22:00	16°C
<b>Weekend Level</b>	<b>Time</b>	<b>Temp</b>
Wake	09:00	21°C
Leave	22:00	16°C
Return	--:--	--°C
Sleep	--:--	--°C


- Press PROG ..... 
- Select WAKE ..... 
- Use the Up/Down keys to set the time for WAKE period .....  
- Use the Up/Down keys to set the temperature .....  
- Repeat these steps for the LEAVE, RETURN & SLEEP periods .....   
- Press DAY to select the next day to program and repeat ..... 



*In 5/2 Day mode the thermostat will display "Sat Sun" prompting you to program the temperature levels for the weekend.*



*In 7 Day mode, the thermostat will display Tue. In 24 hour mode, all days will be displayed.*

- When complete, press DONE to confirm settings and exit ..... 





## Hot Water Timings Explained

The Touch-RF offers an additional timed output for the hot water cylinder.

The thermostat offers 3 programming options:

5/2 Day Programming - 4 levels for the weekdays and 4 different levels for the weekend.

7 Day Programming - 4 levels for each day.












24 hours - 4 levels 7 days a week.

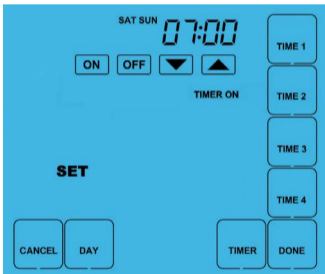
*See pages 26-27 for details on how to switch between these modes.*

**Tip!** If you don't want to use all of the comfort levels, just set the time to --,--

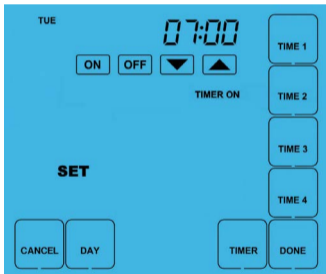
Default switching times are pre-programmed but you can change them easily.

<b>Weekday Level</b>	<b>On Time</b>	<b>Off Time</b>
Wake	07:00	09:00
Leave	16:00	20:00
Return	--,--	--,--
Sleep	--,--	--,--
<b>Weekend Level</b>	<b>On Time</b>	<b>Off Time</b>
Wake	07:00	09:00
Leave	16:00	20:00
Return	--,--	--,--
Sleep	--,--	--,--


- Press PROG ..... 
- Press TIMER, (Time 1 ON will flash) ..... 
- Use the Up/Down keys to set the ON time for period 1 .....  
- Press OFF ..... 
- Use the Up/Down keys to set the OFF time for period 1 .....  
- Repeat these steps for periods 2, 3 and 4 .....   
- Press DAY to select the next day to program and repeat ..... 



*In 5/2 Day mode the thermostat will display "Sat Sun" prompting you to program the hot water levels for the weekend.*



*In 24 hour mode, the thermostat will display Tue. In 24 hour mode, all days will be displayed.*

- When complete, press DONE to confirm settings and exit ..... 



## Clean Screen

Pressing **SCREEN** will disable all keys, providing you 15 seconds to wipe the screen clean before the keys are re-activated.



## Locking the Keypad

The thermostat has a keypad lock facility.



- To activate the lock press the bottom right corner of the display and hold for 10 secs.
- When activated, you will see the Keypad Lock symbol.
- To cancel, press the bottom right corner of the display again for 10 secs.



Keypad Lock Indicator



## Temperature Control

The   keys under the temperature display allow you to adjust the set temperature.

When you press either of these keys, you will see the temperature and the word SET appear on screen.

Select the desired temperature and press  to confirm and exit.

*Note: This new temperature is maintained only until the next programmed comfort level. At this time, the thermostat will revert back to the programmed levels.*



## Hot Water Override

To override the hot water setting follow these steps.

- Press HOLD .....
- Press TIMER .....
- If the hot water is already On – press OFF .....
- If the hot water is already Off – press ON .....



You will then see the hot water status change and the hot water output indication will flash to show it has been overridden from the programmed setting.





The hot water will remain in the override state until the next programmed time.

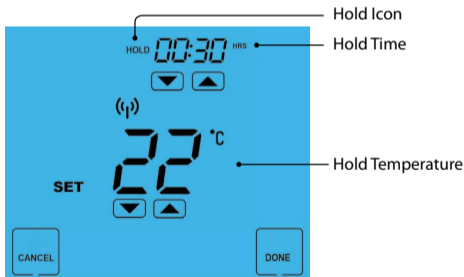
To cancel, repeat the steps above.



## Temperature Hold

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

- Press HOLD ..... 
- Use the top set of Up/Down keys set the hold period ..... 
- Use the center set of Up/Down keys to set the hold temperature ..... 
- Press DONE to confirm and exit ..... 







To cancel a temperature hold, follow the same steps but reduce the time to 00:00.



## Holiday

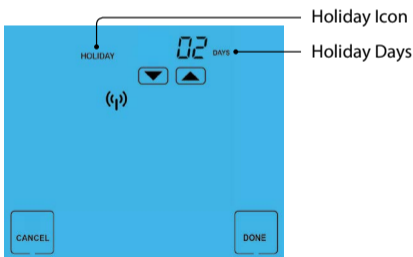
The holiday function reduces the set temperature in your home to the frost protection temperature setting and disables the hot water output (see page 23).

The thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

- Press HOLIDAY ..... 
- Enter the desired duration in days .....  
- Press DONE to confirm settings and exit ..... 


*Note: A holiday period does not start until 00:00 the next day. For example, if you set a holiday period on Friday for 2 days, Saturday will be counted as the first day and the thermostat will revert back to the programmed schedule at 00:00 on Monday.*

To cancel a Holiday setting, reduce the holiday time to 00 days.





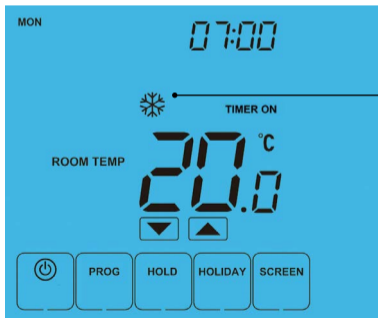
## Frost Mode

Pressing the  key once will place the thermostat in frost protect 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 (see page 24).

Should the heating be turned on whilst in frost mode, the flame symbol will be displayed.

To cancel the frost protect mode, press the  key once.



Frost Protection Mode Enabled



## Heating On/Off

The heating is indicated ON when the flame icon is displayed.

When the flame icon is absent, there is no requirement for heating to achieve the set temperature but the thermostat remains active.

To turn the thermostat OFF completely, press and hold the Power button .....



The display and heating output will be turned off completely.

To turn the thermostat back ON, press the Power button again .....



Thermostat completely OFF



Thermostat powered ON







## Optional Features Explained

**FEATURES 1 – 5 AND 10 - 17 ARE OPTIONAL AND IN MOST CASES NEED NOT BE ADJUSTED**

**Feature 01 – Temperature Format:** This function allows you to select between °C or °F.

**Feature 02 – Switching Differential:** This function allows you to increase the switching differential of the thermostat. The default is 1°C which means the thermostat will switch the heating on 1°C below the set temperature and will turn it off when the set temperature is achieved. With a 2°C differential, the heating will switch on 2°C below the set temperature and will switch off when the set temperature is achieved.

**Feature 03 – Not used on this model.**

**Feature 04 – Frost Protect Temperature:** This is the temperature maintained when the thermostat is in frost mode. The range is 07-17°C. The default is 12°C and is suitable for most applications.

**Feature 05 – Output Delay:** To prevent rapid switching, an output delay can be entered. This can be set from 00 -15 minutes. The default is 00 which means there is no delay.

**Feature 06 – UH8-RF or RF-Switch receiver:** The thermostat can work with our UH8-RF 8 zone wiring centre or RF-Switch receiver. This setting determines which is being used.

**Feature 07 – Receiver Address (UH8-RF only):** Within one building, up to 99 UH8-RF's.

**Feature 08 – Zone Number (UH8-RF only):** This is the zone number you are assigning the thermostat to on the UH8-RF. Zone 01 – 08.

**Feature 09 – Underfloor Heating or Radiator Zone (UH8-RF Only):** This setting determines whether the thermostat will activate the pump & boiler output on the UH8-RF. If set to 00 the outputs will be activated. 00 = UFH, 01 = Radiators.

**Feature 10 – Fail Safe:** If enabled, the thermostat will send a signal to the receiver every 20 minutes. Should the receiver fail to receive two signals, the receiver will activate the output for 20% of the time. This is to protect the system against a loss of wireless signal and in case the thermostat battery fails whilst you are away.

**Feature 11 – Temperature Up/Down Limit:** This function allows you to limit the use of the up and down keys. This limit is also applicable when the thermostat is locked and so allows you to give others limited control over the heating system.

**Feature 12 – Not used on this model.**

**Feature 13 – Not used on this model.**

**Feature 14 – Optimum Start:** Optimum start will delay the start-up of the heating system to the latest possible moment to avoid unnecessary heating and ensure the building is warm at the programmed time. The thermostat uses the rate of change information to calculate how long the heating needs to raise the building temperature 1°C (with a rate of change of 20, the thermostat has calculated the heating needs 20 minutes to raise the building temperature 1°C) and starts the heating accordingly.

**Feature 15 – Rate of Change:** For information only.



**Feature 16 – 5/2 Day, 7 Day or 24 hour Programming:** The thermostat offers 3 programming methods. Weekday/Weekend allows you to program 4 comfort levels for the weekdays and 4 different comfort levels for the weekend. In 7 Day program mode, each day has 4 comfort levels that can be programmed independently. 24 hours, all 7 days programmed to the same 4 comfort levels.

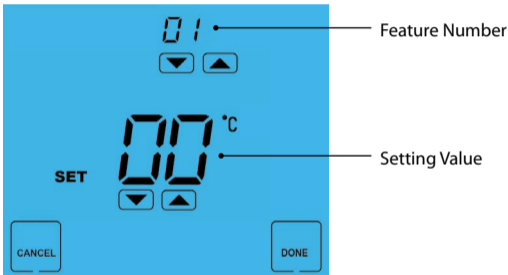
**Feature 17 – Thermostat Mode:** Here you can set in which mode you would like the thermostat to operate. The options are, manual (non-programmable), programmable, or programmable with hot water time clock.






## Adjusting the Optional Settings

To adjust the optional settings, follow these steps.

- Press PROG ..... 
- Press SETUP ..... 



- Use the Up/Down keys at the top of the screen to select the feature number (shown on page 27) and then use the Up/Down keys in the center to adjust the setting .....  
- Press DONE to confirm settings and exit ..... 








## Optional Settings - Feature Table

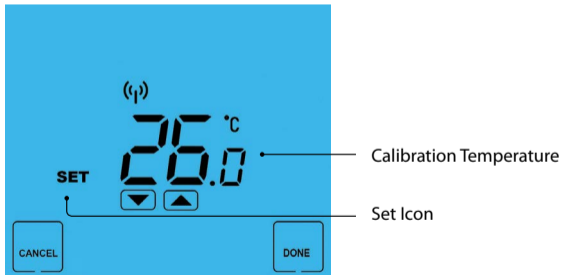
FEATURE	DESCRIPTION	SETTING
01	Temperature Format	00 = °C 01 = °F (°C = Default)
02	Switching Differential	0.5° - 03°C (1.0°C = Default)
03	Not used	Not used
04	Frost Protection Temperature	07° - 17°C (12°C = Default)
05	Output Delay	00 - 15 Minutes (00 = Default)
06	UH8-RF or RF-Switch Receiver	00 = UH8-RF, 01 = RF-Switch (00 = Default)
07	Receiver Board Address	UH8-RF = 01-99
08	Zone Number	UH8-RF = 01-08, RF-Switch = Not Used
09	Underfloor Heating or Radiator (UH8-RF Only)	Underfloor Heating = 00, Radiator Zone = 01
10	Fail Safe	00 Disabled, 01 Enabled (01 = Default)
11	Up/Down Limit	00° - 10°C (00°C = Default)
12	Not Used	Not Used
13	Not Used	Not Used
14	Preheat Setting	00-03 hours (00 = default)
15	Rate of Change	Minute to raise 1°C
16	5/2 Day, 7 Day or 24hr Programming	01 = 5/2 day, 02 = 7 day, 03 = 24 hours (01 = default)
17	Thermostat Mode	00 = Manual, 01 = Programmable, 02 = Programmable + Hot Water



## Re-calibrating the Thermostat

If you need to re-calibrate the thermostat, follow these steps.

- Press and hold the Power key to turn the thermostat OFF ..... 
- Press and hold the OFF key until the temperature appears on screen ..... 
- Use the Up/Down keys to configure the new temperature ..... 
- Press DONE to confirm settings and exit ..... 
- Press the Power key once to turn the thermostat back ON ..... 







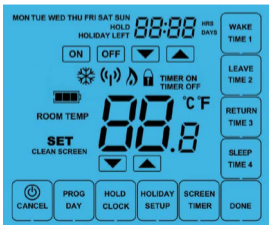
## Factory Reset

The thermostat has a reset function to restore all settings to their factory defaults.

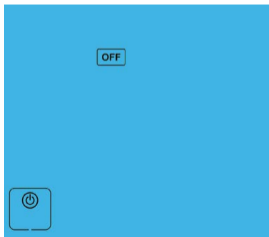
To perform a factory reset, follow these steps.

- Turn the thermostat OFF by pressing and holding the Power button.  
Press and hold the bottom left corner of the LCD for 10 seconds ..... 
- All of the screen icons will appear for 2 seconds and then disappear.
- Press the Power button once to turn the thermostat back on ..... 

All icons displayed simultaneously.



Factory reset is complete.





## Battery Recharging

The thermostat is equipped with a rechargeable battery.

The battery can provide power for up to 6 months before recharging is required in normal operating conditions.

To recharge the battery you need to connect the thermostat to a power source.

A mini USB to USB lead is supplied with the thermostat so you can recharge from the USB port on your laptop or PC.



*Part ref: USB-02*







## Notes

A series of 18 horizontal dotted lines for writing notes.



## Notes

A series of horizontal dotted lines for taking notes.



## Notes

A series of 18 horizontal dotted lines for writing notes.



## Want More Information?

Call our support team on: +44 (0)1254 669090

Or view technical specifications directly on our website:  
[www.heatmiser.com](http://www.heatmiser.com)



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