heatmiser®

Model: **Slimline-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. These features are explained further on pages 20 and 21 of this manual.

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 install near to a direct heat source as this will affect functionality.
Do not push hard on the LCD screen as this may cause irreparable damage.

This wireless thermostat is designed to be surface mounted.

Step 1
Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat.

Step 2
Mark 2 hole positions on the wall using the backplate as a positioning template.
Drill at the marked positions and insert a wall plug into each hole.

Step 3
Screw the thermostat back plate securely on the wall.

Step 4
Clip the front of the thermostat back onto the thermostat back plate.
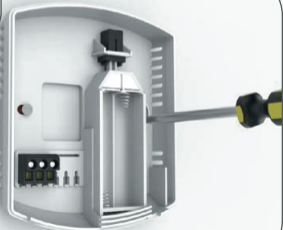
Installing the Batteries

2x AAA batteries have been supplied with this thermostat.

To access the battery holder, push and release the compartment door located on the bottom face of the thermostat. The thermostat will inform you when the batteries need to be replaced by displaying the battery icon on screen.
Do **NOT** use rechargeable batteries with this product!

Insert the batteries in the empty battery holder, ensuring that each battery is orientated for the correct polarity + / - .

Push the battery holder back inside the thermostat until it is secured in its closed position.

Replacing the Batteries

Batteries have a fixed lifespan and will need to be replaced occasionally to ensure the thermostat operates correctly.

The thermostat will inform you when the batteries need to be replaced by displaying the battery icon on screen.

Note: You must replace the batteries within 1 minute of removal in order to retain the current clock and comfort level settings.

Wed

ROOM TEMP

20 °C

18:03h
TIMER ON
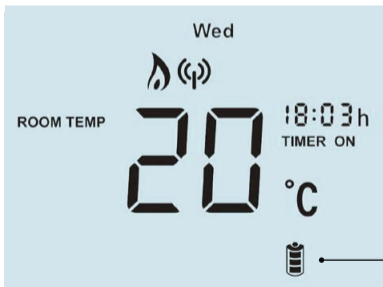
Battery Icon
(Flashes)

Pairing With the RF-Switch

If using with the UH8-RF wiring centre, turn to page 11.

With the thermostat turned OFF:

- Press & hold the Clock button until you see two sets of numbers appear ... ⏰

- The small number 01 in the top right corner of the LCD is the feature number.

- Press Clock repeatedly until you see feature 06 (Receiver Type) .... ⏰
  The options within feature 06 are: 00 = UH8-RF or 01 = RF-Switch receiver.

- Use the Up/Down keys to set feature 06 to 01 (RF-Switch) .... ▲ ▼

- Press Clock again until you see feature 07 (Receiver Address) .... ⏰

- You can now select a Receiver Address from 01-32.

- Use the Up/Down keys to set feature 07 to 01 .... ▲ ▼
  (You must set a unique receiver address for each receiver installed).

- Press A to confirm settings and the display will go blank .... A

- If in mode 02, the hot water will automatically be paired to HW2.

Pairing the Thermostat

- 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 OFF, press & hold the A button for 5 seconds .... $\boxed{A}$
- The thermostat will send a signal for 1 minute and will flash the RF signal icon ... $\boxed{(()))}$
- If pairing is successful, the Comms LED on the RF-Switch receiver will go out.
- Press the Power button on the thermostat once to confirm pairing .... $\boxed{\text{⏻}}$

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 OFF:
- Press & hold the Clock button until 2 sets of numbers appear on screen .... $\boxed{\text{🕒}}$
- The small number 01 in the top right corner of the LCD is the feature number.

- Press Clock repeatedly until you see feature 06 (Receiver Type) .... ⏰
  The options within feature 06 are: 00 = UH8-RF or 01 = RF-Switch receiver.
- Use the Up/Down keys to set feature 06 to 00 (UH8-RF) .... ▼ ▲
- Press Clock again until you see feature 07 (UH8-RF Board Address) .... ⏰
- Use the Up/Down keys to set the large digits to the board address of the UH8-RF. This is the number set on the UH8-RF rotary switches .... ▼ ▲
  (You must set a unique board address for each UH8-RF installed).
- Press Clock again until you see feature 08 (Zone number, 01-08) .... ⏰
- The UH8-RF is an 8 zone receiver.
  Use the Up/Down buttons to select the zone this thermostat should be linked to .... ▼ ▲
- Press Clock again until you see feature 09 .... ⏰
  (00 = Underfloor heating, 01 = Radiators.)
- Use the Up/Down buttons to specify whether the thermostat is controlling underfloor heating or radiators .... ▼ ▲
- Press A to confirm settings and the display will go blank .... A
- Press the Power button once to turn the thermostat back ON .... ⏻
- Press the Up key to set the target temperature above the room temperature; the flame symbol will appear and the assigned zone on the UH8-RF will be activated .... ▲
  This indicates pairing between the thermostat and the UH8-RF is successful.

🔗 Pairing with the UH8-RF V2

Step 1 Setup. With the thermostat turned OFF:

- Press & hold the Clock button until you see two sets of numbers appear *..... 🕐

 *The small number 01 in the top right corner of the LCD is the feature number.*

- Press Clock repeatedly until you see feature 06 (Receiver Type) .... 🕐

  *The options within feature 06 are: 00 = **UH8-RF** or*

  *01 = **UH8-RF v2/RF-Switch receiver.***

- Use the Up/Down keys to set feature 06 to 01 (**UH8-RF V2/RF-Switch**) ... ▲ ▼

- Press Clock again until you see feature 07 (Receiver Address) .... 🕐

  You can now select a zone number from 01-08. To save confusion, set this address

  to the same zone number you will be pairing to on the UH8-RF V2.

- Use the Up/Down keys to set feature 07 to 01 .... ▲ ▼

  (You must set a unique zone number address for each thermostat installed).

- Press A to confirm settings and the display will go blank .... A

  If in mode 02, the secondary timer will automatically be paired to Hot Water channel.

⬤⬤ Pairing with the UH8-RF V2

Step 2 Pairing.

- On the UH8-RF V2, press and hold the desired zone pairing button for 5 seconds or until the zone light flashes steadily.

- With the thermostat turned OFF, press & hold the A button for 5 seconds... **A**

- The thermostat will send a signal for 1 minute and will flash the RF signal icon**....................................... **((•))**

  If pairing is successful, the flashing light on the UH8-RF V2 will go out almost immediately.

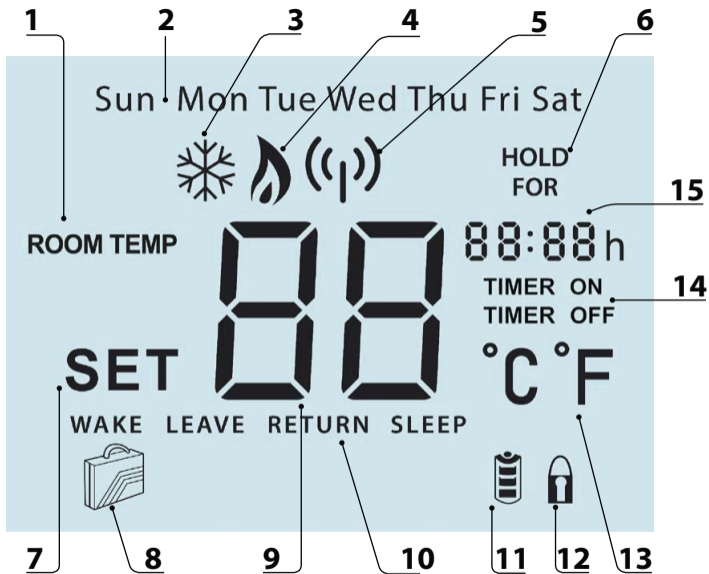If pairing is unsuccessful, check features 06 to 07 have been configured correctly. To eliminate a possible signal issue, reposition the thermostat closer to the receiver and repeat the pairing process again.

*Feature Menu

**Active Pairing

Sun Mon Tue Wed Thu Fri Sat

1

2

3

4

5

6

ROOM TEMP

HOLD
FOR

88:88h

15

TIMER ON
TIMER OFF

14

SET

°C °F

WAKE   LEAVE   RETURN   SLEEP

7

8

9

10

11

12

13

LCD Display

1. Room Temp - Indicates the current temperature sensor mode.
2. Day Indicator - Displays the current day.
3. Frost Icon - Displayed when the thermostat is in frost protection mode.
4. Flame Icon - Displayed when the thermostat is calling for heat, flashes when the Optimum Start function is in operation.
5. RF Icon - Flashes when the thermostat communicates with the receiver.
6. Temperature Hold - Displayed when manually overriding the program, "HOLD FOR" and the time period are displayed.
7. Set - Displayed when changes are made to programs or temperature set points.
8. Holiday Indicator - Displayed when the programmer is in holiday mode.
9. Current Temp - Indicates the current sensor temperature.
10. Program Cycle Indicator - Displayed during programming only to show which period is being altered.
11. Battery Level - Indicates when the batteries require replacement.
12. Keypad Lock Indicator - Displayed when the keypad is locked.
13. Units of Temperature - Degrees Celsius or Fahrenheit.
14. Timer Status – Displays the current state of the timed output.
15. Clock - Digital clock display in 24h format.

⏰ Setting the Clock

To set the clock, follow these steps.

- With the thermostat turned ON, press the Clock key three times* .... 🕐
- Use the Up/Down keys to set the hours .... ▲ ▼
- Press H to confirm settings .... H
- Use the Up/Down keys to set the minutes .... ▲ ▼
- Press H to confirm settings .... H
- Use the Up/Down keys to set the day of the week .... ▲ ▼
- Press A to confirm settings and return to main display .... A

Sun •————————————————— **Day**

————— **Hours**

12:08

————— **Minutes**

SET
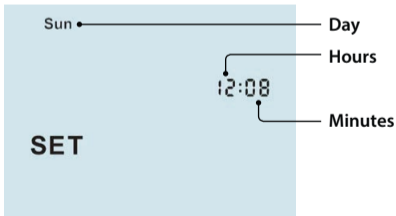
Note: When configured in programmable without hot water control (Feature 17 =01), press the clock key twice to enter clock setting screen.

Temperature Display

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

Room Temperature
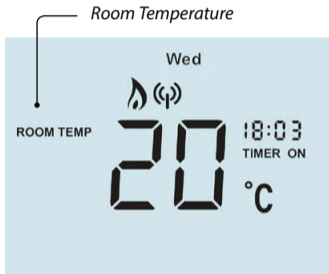
Set Temperature

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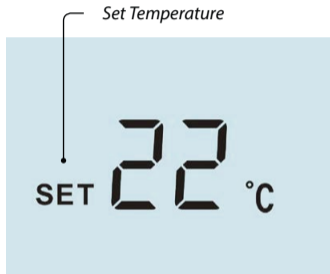
This is the temperature you are trying to achieve in your home.

💬 Comfort Levels Explained

The thermostat provides Weekday/Weekend or 7 Day Programming options.
You should consult the "Optional Features" section to select the required mode.

The thermostat is supplied with comfort levels already programmed, but these can be changed easily. The default times and temperatures are;

08.00 - 21°C (Wake)   09.30 - 16°C (Leave)   16.30 - 22°C (Return)   23.00 - 17°C (Sleep)

If you only want to use 2 levels, you should program the unused levels to --.--

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.

- To program comfort levels, press the Clock key once .... 🕐

For Weekday/Weekend programming,
Mon Tue Wed Thu Fri
are displayed on screen.
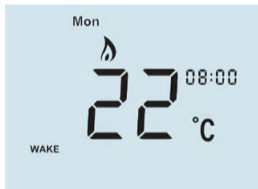
For 7 Day programming,
only Mon is displayed
in the day indicator field.

- Use the Up/Down keys to enter the required WAKE time .... ▲ ▼
- Press H to confirm settings .... H
- Use the Up/Down keys to enter the required WAKE temperature .... ▲ ▼
- Press H to confirm settings .... H
- You will now see "LEAVE" displayed on screen.
- Repeat the programming steps for each period until complete.
- For unused periods enter --.-- and the thermostat will ignore the setting.
- Press A to confirm settings and return to main display .... A

  Note:

- In 7 Day programming mode you can repeat for each day independently.
- In Weekday/Weekend programming mode you will see Sat Sun displayed on screen and can repeat for the weekend.
- *To change the programming mode please refer to pages 27-30.*

🔒 Locking the Thermostat

The thermostat has a keypad lock facility. To activate the lock follow these steps.

- Press and hold the A and Down keys together for 10 seconds .... **A ▼**
- You will see the lock symbol appear on screen .... 🔒
- To unlock, repeat the steps above until the lock symbol disappears.

Note: The keypad lock indicator is only displayed when the lock is active.
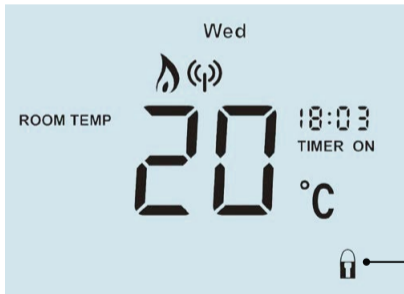
Keypad Lock Indicator

Temperature Control

The Up/Down keys allow you to adjust the set temperature .... ▲ ▼

When you press either key, you will see the word SET and the desired temperature will be displayed on screen.

Use the Up/Down keys to adjust the SET value .... ▲ ▼

Press A to confirm settings and return to main display .... A

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

SET 18 °C
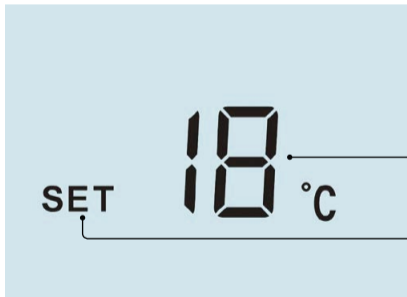
Set Temperature

Set Icon

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 H to commence temperature hold .... **H**
- Use the Up/Down keys to enter the required Hold time........................... **▲ ▼**
- Press H to confirm settings .... **H**
- Use the Up/Down keys to enter the required Hold temperature............. **▲ ▼**
- Press A to confirm settings and return to main display .... **A**

You will see the Hold For indication is displayed on screen.
The time will countdown the set duration and then revert to the normal program.

HOLD FOR •———— Hold ON Indicator

16°C 01:00h •———— Hold Time Remaining

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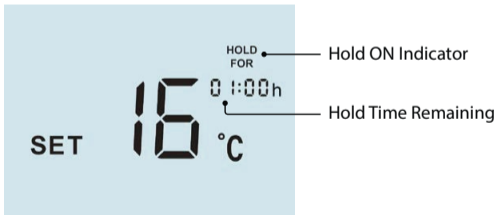
To cancel temperature hold, follow the same steps but reduce the Hold time to 00:00 hours.

Holiday

The holiday function reduces the set temperature in your home to the frost protection temperature setting (see page 27).

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

- Press H three times (until you see the suitcase on screen) .... **H**
- Use the Up/Down keys to enter the number of days holiday .... **▲ ▼**
- Press A to confirm settings and return to main display .... **A**

The display will show a suitcase indicating the thermostat is in holiday mode.

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.

SET **02** ————— Holiday Days Holiday

—————— ON Indicator
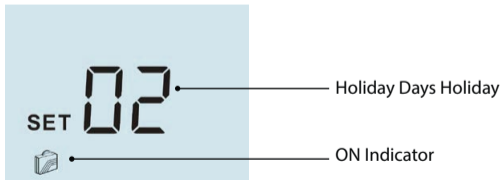
To cancel, follow the same steps but reduce the Holiday duration to 00 days.

🚰 Setting the Hot Water Switching Times

- Press the Clock key twice* .... 🕒

- If your thermostat is setup for Weekday/Weekend programming, Mon-Fri will be displayed on screen. For 7 day programming Mon will be displayed on screen.

- Using the Up/Down keys, enter the required start time

  for Hot Water Time 1 .... ▼ ▲

- Press H to confirm settings .... H

- Use the Up/Down keys, enter the required end time

  for Hot Water Time 1 .... ▼ ▲

- Press H to confirm settings .... H

Repeat the programming steps for each switching time, entering --.-- for any unused periods.

Mon Tue Wed Thu Fri

08:00 ● ──── Time
TIMER ON ● ──── **Timer Status**

WAKE
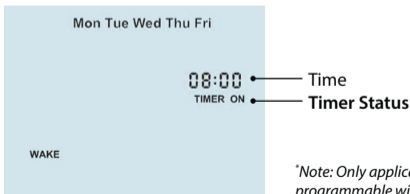
*Note: Only applicable when configured in
programmable with hot water control (Feature 17 =02).*

Hot Water Override

You can override the hot water override by pressing the $\boxed{A}$ key.

If the hot water is OFF, pressing the $\boxed{A}$ key will switch the hot water ON and similarly pressing the $\boxed{A}$ key when the hot water is ON will switch it OFF.

Timer ON or OFF will flash to show when the hot water has been overridden.

This override will last until the next programmed setting.

Wed

ROOM TEMP

20 °C

18:03h
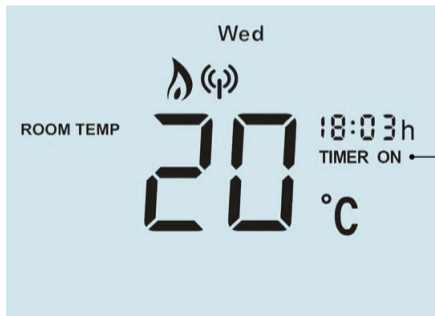
TIMER ON ——— Timer Status

❄ Frost Mode

Pressing the Power button ⏻ 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 27).

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

To cancel the frost protect mode, press the Power button once again. ⏻

🔥 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.*

Press the Power button once to turn the thermostat back ON .... ⏻

See Feature 3 on page 27

Re-calibrating the Thermostat

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

- Press and hold the Power button to turn the thermostat OFF .... ⏻
- Press and hold BOTH the Power and Down keys together until the
  temperature appears on the screen .... ⏻ ▼
- Use the Up/Down keys to configure the new temperature .... ▲ ▼
- Press A to confirm settings .... A
- Press the Power button 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.

- Press and hold the Power button to turn the thermostat OFF .... ⏻
- Press and hold the Power and Up keys together until the LCD powers up.
  All of the icons will be displayed on screen .... ⏻ ▲
- When the icons have disappeared from the screen, the thermostat has
  been successfully reset.
- Press the Power button once to turn the thermostat back ON .... ⏻

⚙️ Optional Features Explained

FEATURES 1 - 4 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 and °F.

Feature 02 – Switching Differential: This function allows you to increase the switching differential of the thermostat. The default is 1°C which means that with a set temperature of 20°C, the thermostat will switch the heating on at 19°C and off at 20°C.
With a 2°C differential, the heating will switch on at 18°C and off at 20°C.

Feature 03 – Frost Protect: You can set whether the thermostat will maintain the frost temperature when the thermostat display is turned off. As a default, this is enabled.

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, and 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 V1 &V2 8 zone wiring centres or RF-Switch receiver. This setting determines which is being used.

Feature 07 – Receiver Address: Within one building, up to 99 UH8-RF's, 32 RF-Switch's or 4 UH8-RF v2's can be used. Each RF-Switch must have a unique receiver address (01-32).

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 – Air Sensor Selection: On this thermostat, you can select which sensor should be used - built in sensor or remote air sensor.

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 or 7 Day Programming: The thermostat offers 2 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.

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 and hold the Power button to turn the thermostat OFF .... ⏻
- Press and hold the Clock key until the display appears as shown below .... 🕒

Setting Value

Feature Number
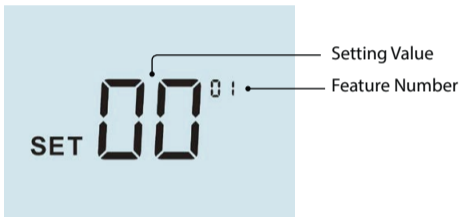
- Use the Clock key to cycle through the features .... 🕒
- Use the Up/Down keys to change the setting .... ▲ ▼
- Press A to confirm settings .... A
- Press the Power button once again to turn the thermostat back ON .... ⏻

Optional Settings - Feature Table

FEATURE	DESCRIPTION	SETTING
01	Temperature Format	00 = °C, 01 = °F (°C = Default)
02	Switching Differential	01° - 03°C (01°C = Default)
03	Frost Mode	00 = Disabled, 01 = Enabled (01 = Default)
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 = UH8-RF V2/RF-Switch (00 = Default)
07	Receiver Board Address	UH8-RF = 01-99, UH8-RF V2/RF-Switch = 01-32
08	Zone Number	UH8-RF = 01-08, UH8-RF V2/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 (00 = Default)
11	Up/Down Limit	00° - 10°C (00°C = Default)
12	Sensor Selection	00 = Built in Air, 01 = Remote Air
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 or 7 Day Programming	00 = 5/2 day, 01 = 7 day (00 = default)
17	Thermostat Mode	00 = Manual, 01 = Programmable, 02 = Programmable + Hot Water

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Want More Information?

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