Model: Slimline-HWN
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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 “Off” 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 programmable 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 14 and 15 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 Slimline Series thermostat 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 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
Place the thermostat front somewhere safe.
Terminate the thermostat as shown in the diagram on page 27 of this booklet.

Step 3
Screw the thermostat back plate securely into the back box.

Step 4
Clip the front of the thermostat back onto the thermostat back plate.
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, the flame icon will flash when the optimum start function is in operation.
5. Temperature Hold - When a Temp Hold is active, HOLD FOR and the remaining time period is displayed.
6. Set - Indicates when changes are being made to programs or temperature set points.
7. Holiday Indicator - Displayed when the thermostat is in holiday mode.
8. Current Temp - Indicates the current sensor temperature.
9. Program Cycle Indicator - Displayed during programming only to show which period is being altered.
10. Keypad Lock Indicator - Displayed when the keypad is locked.
11. Units of Temperature - Degrees Celsius or Fahrenheit.
12. Timer Status – Displays the current state of the timed output.
13. 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 .................................................................................

• Use the Up/Down keys to set the minutes .......................................................   

• Press H to confirm settings .................................................................................

• Use the Up/Down keys to set the day of the week ..........................................

• Press A to confirm settings and return to main display ...................................
Temperature Display

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

Room Temperature

This is the current room temperature.

Set 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 twice ..............................................................

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 ..........................................................................................
• Use the Up/Down keys to enter the required WAKE temperature ......
• Press H to confirm settings ..........................................................................................
• 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 ......................................

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 21-24.
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 ..........
- 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.
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 .............................................

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

To cancel temperature hold, follow the same steps but reduce the Hold time to 00:00 hours.
The holiday function reduces the set temperature in your home to the frost protection temperature setting (see page 21). 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 H three times (until you see the suitcase on screen) ................................
- Use the Up/Down keys to enter the number of days holiday .........................
- Press A to confirm settings and return to main display ..............................

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.

To cancel, follow the same steps but reduce the Holiday duration to 00 days.
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 21). 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 & Hot Water ON/OFF

The heating is indicated ON when the flame icon is displayed, the hot water is indicated ON when TIMER ON 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, heating and hot water output will be turned OFF completely.*

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

Thermostat completely OFF  Thermostat powered ON

*See Feature 3 on page 21
Setting the Hot Water Switching Times

- Press the Clock key once .................................................................
- 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 ................................................................
- Use the Up/Down keys, enter the required end time for Hot Water Time 1 ..................................................................................................................
- Press H to confirm settings ................................................................

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

You can override the hot water override by pressing the key.
If the hot water is OFF, pressing the key will switch the hot water ON and similarly pressing the 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.
Optional Features Explained

THE FOLLOWING SETTINGS 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, 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 – Communication Address: This setting is used when you have connected your thermostat to a network system. Each thermostat on your network must have a unique communication address. This can be set from 01-32.
Feature 07 – 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 08 – Sensor Selection: This thermostat has a built in air sensor.

Feature 09 – Floor Temp Limit: This function is not available on this model.

Feature 10 – 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 11 – Rate of Change: For information only.

Feature 12 - Programming Mode: 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.
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 ............

  SET 00:00

  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 ....................................................................................................
- Press the Power button once again to turn the thermostat back ON ............................
## Optional Settings - Feature Table

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<th>DESCRIPTION</th>
<th>SETTING</th>
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<tbody>
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<td>01</td>
<td>Temperature Format</td>
<td>00 = °C, 01 = °F (°C = Default)</td>
</tr>
<tr>
<td>02</td>
<td>Switching Differential</td>
<td>01° - 03°C (01°C = Default)</td>
</tr>
<tr>
<td>03</td>
<td>Frost Mode</td>
<td>00 = Enabled, 01 = Disabled (00 = Default)</td>
</tr>
<tr>
<td>04</td>
<td>Frost Protection Temperature</td>
<td>07° - 17°C (12°C = Default)</td>
</tr>
<tr>
<td>05</td>
<td>Output Delay</td>
<td>00 - 15 Minutes (00 = Default)</td>
</tr>
<tr>
<td>06</td>
<td>Communications ID No.</td>
<td>Set unique comms address 01-32</td>
</tr>
<tr>
<td>07</td>
<td>Up/Down Temperature Limit</td>
<td>00° - 10°C (00 = Default)</td>
</tr>
<tr>
<td>08</td>
<td>Sensor Selection</td>
<td>Built in Sensor</td>
</tr>
<tr>
<td>09</td>
<td>Floor Temperature Limit</td>
<td>Not used in this model</td>
</tr>
<tr>
<td>10</td>
<td>Optimum Start</td>
<td>00 - 03 Hours (00 = Default)</td>
</tr>
<tr>
<td>11</td>
<td>Rate of Change</td>
<td>Minutes to raise by 1°C</td>
</tr>
<tr>
<td>12</td>
<td>Program Mode</td>
<td>00 = Weekday/Weekend, 01 = 7 Day Programming</td>
</tr>
</tbody>
</table>
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 ............................................................................................................
- Press the Power button once to turn the thermostat back ON .............................................

Calibration Temperature Setting

Set Icon
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 ........................................

All icons displayed simultaneously. Factory reset is complete.
Connecting Slimline-HWN to the UH8-N

The UH8-N allows connection of up to eight 12 volt network thermostats. When connecting network thermostats to the UH8-N use CAT5-FTP or BELDEN 9538. Connect the screen to S terminals (Earth) at the UH8-N.
Want More Information?

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

Or view technical specifications directly on our website: www.heatmiser.com

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