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Operating Instructions

PRT-R2
REV: 1

heatmiser[™]
Effective Temperature Control



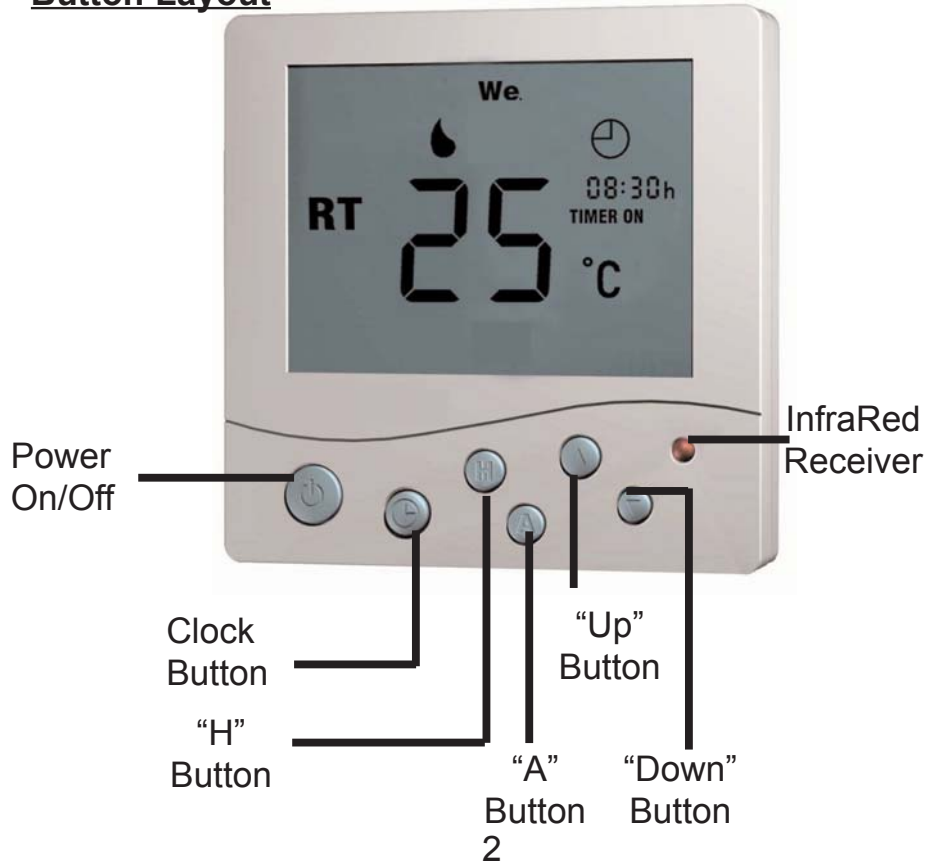
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Button Layout



	LCD Symbols
	Clock Indicator
	Heat Active Indicator
	Frost Mode On
	Floor Temperature Over Limit
	KeyLock On

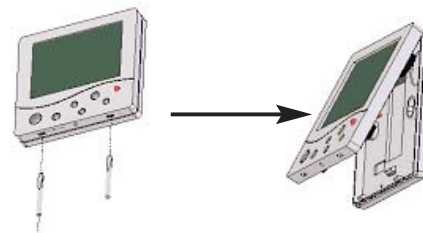
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1. Installation

1. The thermostat is flush mount, a back box of 35mm should have been sunk in the wall prior to installation.
2. The thermostat should be mounted at around 6ft or eye level.
3. Do not install near a direct heat source.

Step 1

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



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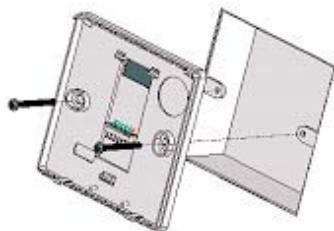
Step 2

Carefully unplug the ribbon connector which is plugged in to the front half of the thermostat.

Place the thermostat front half somewhere safe.

Terminate the thermostat as shown in the diagrams at the back of this booklet.

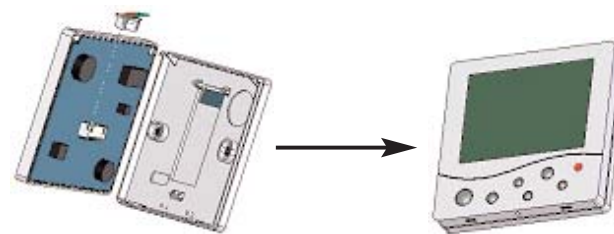
Screw the thermostat back plate on to the back box.



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Step 3

Re-connect the thermostat ribbon cable and clip the two halves together.



Step 4


Turn on the power to the thermostat and allow the thermostat to stabilise for 1 hour before calibrating.

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3. Initial Setup


A) Frost Protection (Thermostat Off)

You now need to decide if you wish the thermostat to maintain the frost temperature when you have turned the thermostat off by using the Off button.

- Turn the thermostat Off
- Press  for 3 seconds.
- Select 01 to enable Select 00 to disable
- Press Off to store

B) Frost Protection Temperature


On the PRT-R2 you are able to adjust the frost protection temperature. The range is 07-17°C

- Turn the thermostat off
- Press  and A for 3 seconds.
- You can now enter the required temperature.
- Press the Off button to store

C) Calibrating the PRT-R2

The PRT-R2 has a room (built in to the thermostat) and remote floor sensor. The room sensor must be calibrated when it is first installed. The floor sensor does not require calibration.

To calibrate the sensor, first obtain an accurate sensor reading from an accurate thermometer and then follow the steps below.

- Turn off the PRT-R2
- Press  and H for 3 seconds
- Using the Up/Down arrow keys select the correct temperature
- Turn the thermostat off to store the temperature.

D) Setting the Clock

To set the clock within the PRT-R2, follow the steps below.

- With the thermostat turned on, press **Ⓢ** twice
- You are now able to set the minutes using the up/down keys
- Press **H** to accept
- You are now able to set the hours using the up/down keys
- Press **H** to accept
- You are now able to set the day of the week using the up/down keys
- Press **A** to store and exit

The clock is now set. The PRT-R2 has a battery which maintains the clock on a power failure. All program settings are retained in flash memory for 10 years.

E) Enabling / Disabling the floor limit sensor

The PRT-R2 is supplied with a floor sensor probe. This sensor is used to prevent the floor from overheating.

The floor sensor is enabled as a factory default, to disable follow the steps below.


- With the thermostat turned on, press the **H** and **Up** arrow key for 5 seconds.

00 = Disabled

01 = Enabled (Factory default)

If the remote sensor probe has been enabled, the PRT-R2 will detect if the sensor is faulty / disconnected. In such a case, the heating will turn off so that there is no risk of the floor surface overheating.

F) Setting the floor limit temperature

If you have enabled the floor sensor probe, you need to set the floor limit temperature. Should the floor temperature reach this limit, the heating will be turned off and  will be displayed on screen.

- With the thermostat turned off, press H and Up arrow key
- Use the Up/Down arrow keys to select the floor limit temperature. 28 is the factory default.
- To store, press the Off button.

Viewing the Floor Temperature

Press and hold the A button to view the floor temperature.

Temperature Override

Using the Up/Down arrow keys you can adjust the current set temperature. On the screen, you will see SET and the new temperature displayed.

This temperature will be maintained until the next programmed comfort level.

Turning The Heating Off (Frost Protection)

By pressing the H button, the thermostat will switch into frost protection mode. You will see a frost symbol on screen.

The frost protection temperature will now be maintained. To cancel, repeat the steps above.

Setting the Comfort Levels

The PRT-R2 has 4 comfort levels for the weekday and 4 for the weekend. This method of control is not to have on/off times but to allow the occupant to set varying temperatures throughout the day.


For example;

08.00 - 21 (Wake) 09.30 - 16 (Go to work)
16.30 - 22 (Return home) 23.00 - 17 (Sleep)

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

You are now able to program the first comfort level for the weekday.

Follow these steps;

- To begin programming the comfort levels, press  once. You will see Mo - Fr displayed.
- Use the Up/Down arrow keys to select the time for the 1st comfort level for the weekday.
- Press H to accept
- Enter the required temperature for the 1st comfort level.
- Repeat for comfort levels 2-4.
- You will now see Sa Su on the screen. Repeat for the comfort levels for the weekend.

Keylock Function Enable/Disable

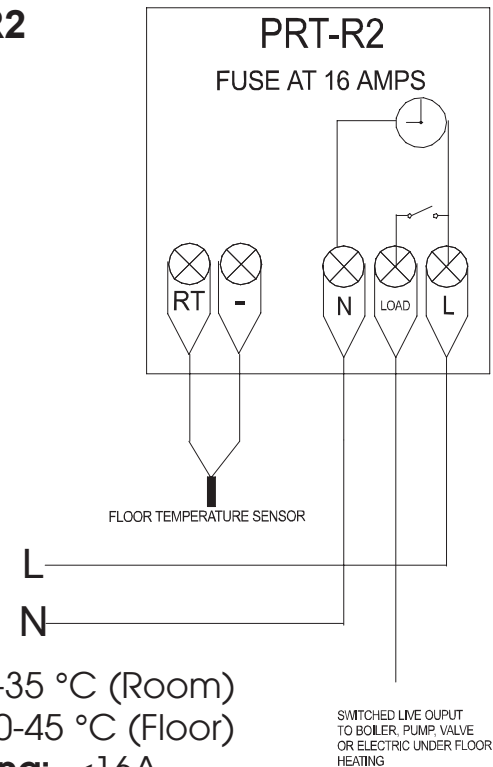
This function allows you to lock the keypad. To use this function, you first need to enable it.

- Turn the thermostat off
- Press the A and Up arrow key for 10 seconds
- 00 = disabled 01 = enabled
- Press A to store

Turning on the Keylock

- With the thermostat turned on, press A and UP for 10 seconds
- You will see ☾ on screen. This shows the keylock function has been enabled.
- To cancel, press A and UP for a further 10 seconds.

Heatmiser PRT-R2



Set-point range: 5-35 °C (Room)

Set-point range: 20-45 °C (Floor)

Switch Current Rating: <16A