Operating Instructions
Model: PRTHW-W

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Installation Procedure

Mount the thermostat at eye level.

Installation

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.

Fix the back plate to the wall. Clip the front of the thermostat to the back plate.

Installing the Batteries
2 AAA batteries are supplied with the thermostat.

To access the battery holder, push and release the compartment door (located on the bottom face of the thermostat)

Install the batteries in the holder, following the polarity of the batteries. Then push the holder back inside the thermostat.

You should replace the batteries in the thermostat when the battery icon is displayed on the LCD. Once you have taken the batteries out of the thermostat, ensure you replace the batteries within 1 minute in order to retain the current clock setting.

Pages 17-24 explain the different features available on this thermostat.

Pairing with the RC1-W Receiver
If using with the UH1-W wiring centre, turn to page 6.

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 = UH1-W or 01 = RC1-W receiver.
- Use the Up/Down keys to set feature 06 to 01 (RC1-W).
- 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 should set a unique receiver address for each receiver installed).

Feature 08 does not need altering as the heating output will always be assigned to zone 1 on the receiver & the hot water output will be on zone 2.

• Press A to accept, the display will now go blank.

Pairing the thermostat

• On the receiver, press and hold the pairing button until the Comms LED comes on.

• With the thermostat turned off, press & hold the A button for 5 seconds. The thermostat will send a signal for 1 minute, and will flash the RF signal icon.

If successful, the Comms LED on the receiver will flash.

• Press the Power Button once on the thermostat to confirm pairing.

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

Pairing with the UH1-W Wiring Centre

On the UH1-W wiring centre, take note of the number set on the rotary switch (Board ID number 1-9). Each UH1-W on the system will need a different ID number.

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 = UH1-W or 01 = RC1-W receiver.
- Use the Up/Down keys to set feature 06 to 00 (UH1-W).
- Press Clock again until you see feature 07 (UH1-W Board Address).

- Use the Up/Down keys & set the large digits to the board address of the UH1-W, this is the number set on the UH1-W rotary switch. (You should set a unique board address on each UH1-W installed).
- Press Clock again until you see feature 08 (Zone Number, 01-08). The UH1-W 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 = Under-floor heating, 01 = Radiators. Use the up/down buttons to select if the thermostat is controlling Under-Floor heating or radiators.
- Press A to accept, the display will now go blank.
- Press the power button once to turn the thermostat back on, press the up button & set the target temperature above the room temperature, the flame symbol should then appear and the assigned zone on the UH1-W should now be activated. This indicates pairing between the thermostat & the UH1-W is successful.

Icons Explained

Heating On	
Heating Off – Frost Mode	
Key Lock	
RF Signal Active	
Battery	
Holiday Active	
Timer On/Off	Hot water on/off

Temperature Display
Room Temp = This is the current room temperature.
Set = This is the temperature you are trying to achieve in your home.

Setting the Clock
To set the clock, follow the steps below.

- With the thermostat turned on, press the Clock button three times
- You are now able to set the hours using the Up/Down keys
- Press H to accept
- You are now able to set the minutes 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

Locking the Thermostat

The thermostat has a key-lock facility. To enable, follow these steps;

- Press and hold the A and Down key for 10 seconds
- You will see the lock symbol appear
- To unlock, repeat the steps above.

Comfort Levels Explained

The Heatmiser PRTHW-W provides Weekday/Weekend or 7 Day programming. You should consult the Configuration Menu section to select the required mode.

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

08:00 – 21C (Wake)
09:30 – 16C (Leave)
16:30 – 22C (Return)
23:00 – 17C (Sleep)

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

- To begin programming the comfort levels, press Clock Once
- If your thermostat is setup for Weekday/Weekend programming, you will see Mon-Fri shown. For 7 day programming you will see Monday, you need to use Up/Down arrow keys to select which day you would like to program and then press H key to confirm.
- Using the Up/Down arrow keys, enter the required Wake time
- Press H
- Using the Up/Down arrow keys, enter the required Wake temperature
- Press H
- You will see Leave
- You should repeat the programming for each period, entering --.– for unused periods.
- Press A to accept to confirm any changes made.

Note: For weekday/weekend programming, the 4 comfort levels are the same for all weekdays. For 7 day programming, each day can have 4 different comfort levels.

Setting the Hot Water Switching Times
- Press the clock button twice
- If your thermostat is setup for Weekday/Weekend programming, you will see Mon-Fri shown. For 7 day programming, you will see Monday, you need to use Up/Down arrow keys to select which day you would like to program and then press H key to confirm
- Using the Up/Down arrow keys, enter the required start time for Hot water time 1
- Press H
- Using the Up/Down arrow keys, enter the required end time for Hot water time 2
- Press H
- You should repeat the programming for each switching time, entering --.—for any unused periods.

Hot Water Override

On the default screen, press A key once to override the hot water into the opposite state.

Temperature Hold

The temperature hold function is ideal for parties or when you will be going out for a number of hours. It allows you to hold a temperature for a desired period.

- Press H
- Using the Up/Down arrow keys enter the required hold time
- Press H
- Using the Up/Down arrow keys enter the required hold temperature
- Press A to accept

You will see the Hold indication is displayed which will countdown the hold duration.

To cancel, reduce the Hold time to 00 hours

Temperature Set
Using the Up/Down arrow keys allows you to adjust the set temperature. When you press either of these keys, you will see the word SET and the desired temperature.

Press A to accept.

Heat On/Off
Frost Protect: 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 temperature. Should the heating be turned on whilst in frost mode, the flame symbol will be displayed. To cancel the frost protect mode, press the power button.

Thermostat off:

To turn the thermostat off completely, press and hold the power button. The display and heating output will be turned off. To turn the thermostat back on, press the power button.

Holiday

The Heatmiser PRTHW-W has a holiday function. This allows you to enter a holiday setting. During a holiday, the thermostat will maintain the frost set temperature. At the end of your holiday, the thermostat will revert back to the programmed setting ensuring that your home is warm on your arrival.

- Press H three times (Until you see the suitcase)
- Using the Up/Down arrow keys, enter the number of days holiday
- Press A to accept

The thermostat will show a suitcase indicating the thermostat is in holiday mode. To cancel, reduce the Holiday duration to 00 days.

Factory Reset
The thermostat has a factory reset function. This will reset all settings back to their factory default. To perform a factory reset, follow these steps;

- Turn the thermostat off
- Press and hold the Power and Up arrow key until the LCD powers up. All of the icons will be displayed. When they have disappeared, the thermostat has been reset.

THE FOLLOWING SETTINGS ARE OPTIONAL AND IN MOST CASES NEED NOT BE ADJUSTED

Optional Features Explained

Feature 01 – Temperature Format: This function allows you to select between °C/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 almost all 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 – UH1-W or RC1-W receiver: The thermostat can work with our UH1-W 8 zone wiring centre or RC1-W 2 channel receiver. This setting determines which is being used.

Feature 07 – Receiver Address: Within one building, up to 9 UH1-W's or 32 RC1-W's can be used. Each receiver must have a unique receiver address.

Feature 08 – Zone Number: This is the zone number you are assigning the thermostat to on either the UH1-W or the RC1-W receiver. 01-08 - UH1-W, 01-02 – RC1-W

Feature 09 – Underfloor Heating or Radiator Zone (UH1-W Only): This setting determines whether the thermostat will activate the pump & boiler output on the UH1-W. 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 or should the thermostat battery fail whilst you are away.

Feature 11 – Up/Down Temperature Limit:
This function allows you to limit the use of the up and down temperature keys. This limit is also applicable when the thermostat is locked and so allows you to give others limited control of 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, so that the dwelling is comfortably warm by the programmed time. The thermostat uses the rate of change (see below) setting to calculate how long the building needs to take to raise the building 1°C (with a rate of change of 20, the thermostat has calculated the building needs 20 minutes to raise the building 1°C).

Feature 15 – Rate of Change For information only

Feature 16 – Programming Mode The thermostat offers two programming methods. Weekday/Weekend allows you to program 4 comfort levels for the weekday 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
1. To access the configuration menu, turn off the thermostat by pressing and holding down the power button.
2. Press and hold down the Clock button until the display comes on.
3. The small number is the feature number, the large number is the setting value
4. Use the clock button to cycle through the features.

5. Use the Up/Down keys to change the setting.
6. Press A to accept and store.

Feature Table

Feature	Description	Setting
01	Temperature Format	00=C 01=F
02	Switching Differential	01-03C 01C Default
03	Frost Mode	00= Disabled 01 =Enabled (01= Default)

04	Frost Temperature	07-17C (12C Deafult)
05	Output Delay	00-15 Minutes (00 Default)
06	UH1-W or RC1-W Receiver	00 = UH1-W 01 = RC1-W 00 = Default
07	Receiver Board Address	UH1-W = 01-09 RC1-W = 01-32 00 = Default
08	Zone Number	UH1-W - 01-08 RC1-W = 01-02

09	Underfloor Heating or Radiator (UH1-W Only)	Underfloor Heating = 00 Radiator Zone = 01
10	Fail Safe	00 Disabled 01 Enabled (00 Default)
11	Up/Down Limit	00-10C 00C Default
12	Sensor Selection	Fixed on built in sensor
13	Not used	Not used
14	Preheat Setting	00-03 hours 00 default
15	Rate of Change	Non adjustable
16	5/2 Day or 7 Day Programming	00 = 5/2 day 01 = 7 day 00 default