

Heatmiser PRTHW-UWTS

*Wireless Touchscreen
Programmable Thermostat
with Hot Water Output*

Ref: PRTHW-UWTS

Rev: 1.0

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Installation Procedure

Do's

1. Do mount the thermostat at eye level, or if using the desk stand, ensure the thermostat is away from any heat sources.

Don'ts

1. Do not push hard on the LCD otherwise you will damage the liquid crystal display and this is not repairable.

Wall mounting

The wall plate is supplied loose. If you are using the wall plate, fix to the wall and then push the thermostat onto the wall plate.

Desk Stand

Remove the wall plate from the back of the thermostat before releasing the desk stand.

Testing the communications with the UH1-W

On the UH1-W:

On the UH1-W set the board address number, choose from 01-09 on the dial, each UH1-W will need a different address.

PRTHW-UWTS:

- Press Prog then Setup.
- At the top of the screen press the Up button to select feature 05.
- Use the up/down buttons in the centre of the screen to select the UH1-W board number you are communicating with. (01-09)
- Press the up button at the top of the screen to select feature 06.
- Use the up/down buttons in the centre of the screen to select which zone number on the UH1-W you are assigning the thermostat to.(01-08)
- Press the up button at the top of the screen to select feature 07.
- Use the up/down buttons in the centre of the screen to select if the thermostat will bring on the pump & boiler outputs.
00=UFH (Outputs enabled) 01=Radiator (Outputs not enabled)
- Press the Done button.

Testing the communications with the UH1-W

On the thermostat use the Up button and take the set temperature above the room temperature then press done. You will now see the flame symbol and after a few seconds the RF symbol will appear, the assigned zone on the UH1-W should now be active.

If the output on the UH1-W does not come on, reduce the distance between the PRTHW-UWTS and UH1-W and check features 05-07 have been set up properly, then repeat the above process.

Temperature Display

Room Temp = This is the current room temperature.

SET = This is the temperature you are trying to achieve.

Setting the Clock

To set the clock in your thermostat, follow the steps below;

- With the thermostat turned on, press PROG
- Press Clock
- Use the Up and Down keys to set the correct time
- Press Day to set the correct day
- Press Done to accept and Store

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 at home relaxing. The thermostat offers 5/2 Day Programming (4 Levels for the Weekday, 4 for the Weekend) and 7 Day Programming (4 Levels for each day).

Tip - If you don't want to use all of the comfort levels, just set the time to --.— and the thermostat will ignore this setting.

Factory Programmed Comfort Levels

The following comfort levels are programmed already, however you can change them easily.

Weekday Level	Time	Temp
Wake	07.00	21°C
Leave	09.00	16°C
Return	16.00	21°C
Sleep	22.00	16°C

Weekend Level		
Wake	09.00	21°C
Leave	22.00	16°C
Return	--.--	--.--
Sleep	--.--	--.---

Changing the Comfort Levels

- Press PROG and select Wake.
- Use the Up/Down keys to set the time for the 1st Comfort Level.
- Use the Up/Down keys to set the temperature for the 1st Comfort Level.
- You should now repeat for the Leave, Return and Sleep levels.
- Press Day to select the next day. In 5/2 day mode the thermostat will highlight Sat Sun prompting you to program the temperature levels for the weekend. In 7 day mode, the thermostat will highlight Tuesday.
- When complete, press Done to store and exit.

Hot Water Timings Explained

The PRTHW-UWTS offers an additional timed output for the hot water cylinder. The thermostat offers 5/2 Day Programming (4 Levels for the Weekday, 4 for the Weekend) and 7 day Programming (4 Levels for each day).

Factory Programmed Hot Water Times

The following hot water switching times are programmed already; however you can change them easily.

Weekday	On Time	Off Time
1	07:00	09:00
2	16:00	20:00
3	--.--	--.--
4	--.--	--.--

Weekend	On Time	Off Time
1	07:00	09:00
2	16:00	20:00
3	--.--	--.--
4	--.--	--.--

Changing the Hot Water Times

- Press Prog and select Timer
- You will see Time 1 and On Flash
- Use the Up/Down keys to set the time for the 1st switching time
- Press Off and then use the Up/Down keys to set the off switching time.
- You should now repeat for the Time 2-4
- Press Day to select the next day. In 5/2 day mode, the thermostat will highlight Sat, Sun prompting you to program the switching times for the weekend. In 7 day mode, the thermostat will highlight Tuesday.
- When complete, press Done to store and exit.

Hot Water Override

The thermostat has an override function for the hot water output, allowing you to override the hot water into the opposite state.

- Press Hold
- Press Timer
- If the Hot water is already on, press OFF
- If the Hot water is already off, press ON

The hot water will remain in the override state until the next programmed time. To cancel, repeat the steps above.

Locking the Keypad

The thermostat has a keylock facility. To enable this press the bottom right corner of the display and hold for 10 seconds. When activated you will see the lock symbol. To cancel, repeat the steps above.

Temperature Set

Using the Up and Down 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 Done to accept.

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 Hold
- Set the desired Hold time and temperature
- Press Done
- To cancel a Hold time, reduce the time to 00.00

Holiday

The Holiday function reduces the set temperature in your home to the frost temperature setting. The thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

Assume you program a holiday on Monday for 1 day, the holiday will start immediately will count the next day (Tuesday) as the holiday. The thermostat will then revert back to its program at midnight at midnight Tuesday.

- Press Holiday
- Enter the duration of your holiday
- Press Done
- To cancel a holiday, reduce the Holiday time to 00 days

Frost Protect 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 pages 13-14) 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 will be turned off. To turn the thermostat back on, press the Power button once.

Clean Screen

Pressing “Screen” will disable all buttons, allowing you 15 seconds to wipe the screen clean

Factory Reset

Turn off the thermostat by pressing and holding the Power button. Now press and hold the Power button for 10 seconds, you will see all the icons appear for 2 seconds and then disappear. The thermostat has now been reset to the factory defaults.

Calibration

Should you need to calibrate the thermostat, follow these steps;

- Press and hold the power button to turn off the thermostat
- Press and hold the OFF button for approx. 10 seconds
- Use the Up/Down buttons to enter the correct temperature.
- Press Done to store

Battery and Recharging

The thermostat battery should last at least 6 months in normal operating conditions. The thermostat is equipped with a rechargeable battery and is supplied with a mini USB to USB lead so that you can charge the thermostat from your PC's USB port. An optional mains adaptor (USB-01) is also available.

Feature Setup

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

Feature 02 – Switching Differential: This function allows you to adjust the switching differential of the thermostat. This is the number of degrees the thermostat will switch on below the set temperature. This can be adjusted in order to obtain optimum switching of the heating in your home. As an example, the default is 1°C which means the thermostat will switch the heating on 1.0°C below the set temperature.

Feature 03 – Frost 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 04 – 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 05 – UH1-W Address: Within one building, up to 9 UH1-W's can be used, each must have a unique address.

Feature 06 - Zone No.

This is the zone number on the UH1-W you wish to assign the thermostat to, select from 1-8.

Feature 07 – Under-floor Heating or Radiator Zone: This setting determines whether the thermostat will active the pump & boiler outputs on the UH1-W when the thermostat calls for heat. 00-Enabled 01-Disabled.

Feature 08 – Fail Safe

If enabled, the thermostat will send a signal to the receiver every 20 minutes. Should the receiver fail to receive the signal from the thermostat, 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 09 – 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 10 – Optimum Start: Optimum start will bring the heating on early if needed, so the house is warm when you wake up. This means you don't need to allow any extra heat up time when programming the comfort levels. The thermostat will automatically learn the required heat up time and will adjust itself, if required, throughout the year.

Feature 11 – Rate of Change: This is the number of minutes the thermostat has calculated it takes to raise your building 1°C. The thermostat will continue to learn the heat up time of your home and will adjust this setting to suit.

Feature 12 – 5/2 Day or 7 Day: This function allows you to switch between 5/2 day or 7 day programming. 5/2 Day means you can program 4 comfort levels for the weekday and 4 different levels for the weekend. 7 day programming allows you to program 4 temperature levels for each day of the week.

Adjusting the Feature Settings

To adjust the settings, follow these steps;

- With the thermostat turned on.
- Press Prog
- Press Setup
- Use the Up/Down keys at the top of the screen to select the feature number
- Use the Up/Down keys in the centre of the display to adjust the setting
- Press Done to store

Feature Table

Feature	Description	Setting
01	Temperature Format	00=°C 01=°F
02	Switching Differential	0.5 – 03 1°C Default
03	Frost Protect Temperature	07-17°C 12°C Default
04	Output Delay	00-15 Minutes 00=Default
05	UH1-W Address	01-09
06	UH1-W Zone No.	01-08
07	UFH or Radiator	00=UFH 01=Radiator
08	Fail Safe	00=Disabled 01=Enabled
09	User Temp Limit	00-10 00=Disabled
10	Optimum Start	01-03 Hours 00=Disabled
11	Rate Of Change	Information Only
12	Program Mode	00=5/2 Day 01= 7 Day

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