

heatmiser®



Model: **DT-UWTS**



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What is a Room Thermostat?

A room thermostat simply switches the heating system on and off as necessary.

It 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.

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 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 room thermostat is to find the lowest temperature settings that you are comfortable with, 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 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.

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 push hard on the LCD screen as this may cause irreparable damage.
Do not install near to a direct heat source as this will affect functionality.
If using the desk stand, ensure the thermostat is away from heat sources.

Wall Mounting:

Step 1

Fix the wall plate to the wall.

Step 2

Push the thermostat onto the wall plate.

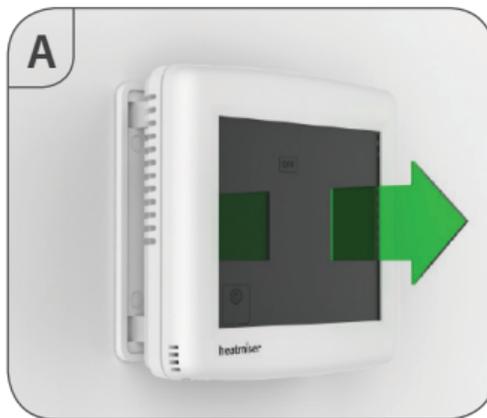
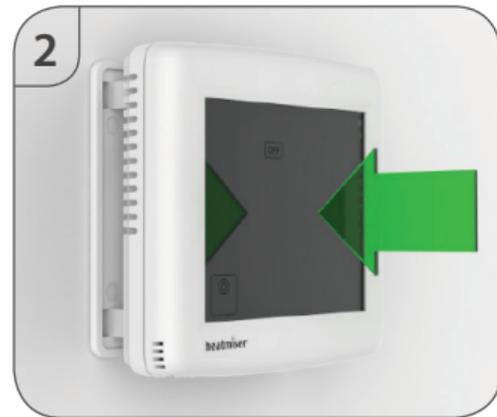
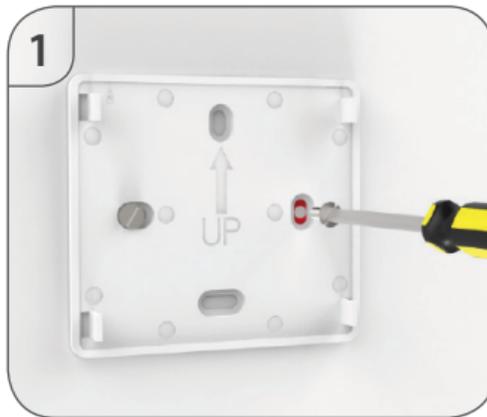
Desk Stand:

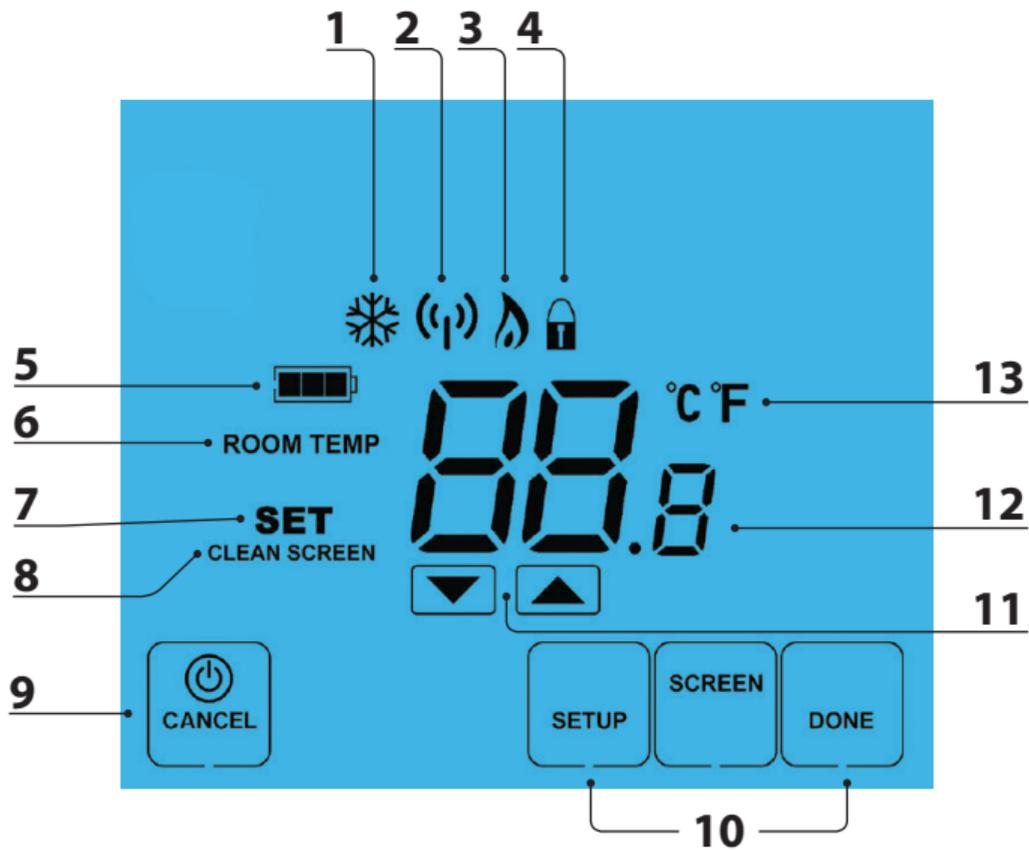
Step A

Remove the thermostat from the wall plate.

Step B

Release the desk stand.





LCD LCD Display

1. Frost Icon - Displayed when the thermostat is in frost protection mode.
2. RF Icon - Flashes when the thermostat communicates with the receiver.
3. Flame Icon - Displayed when the thermostat is calling for heat.
4. Keypad Lock Icon - Displayed when the keypad is locked.
5. Battery Icon - Indicates current battery charge level.
6. Room Temp - Indicates the current temperature sensor mode.
7. Set - Indicates when changes are being made to programs or temperature set points.
8. Clean Screen - Freezes screen temporarily to enable cleaning.
9. Power: Single press to enable/disable frost protection or press and hold to turn off display. Cancel: used to exit setup/program operations.
10. Setup/Programming Keys - Used to navigate setup options.
11. Up/Down Keys - Increase or decrease values shown on bottom digit group.
12. Current Temp - Indicates the current sensor temperature.
13. Units of Temperature - Degrees Celsius or Fahrenheit.

Testing Communications with the UH1-W

On the UH1-W:

Set the board address number, choose from 01-09 on the rotary switch.

Note: Each UH1-W will need a different address.



On the DT-UWTS:

- Press SETUP 
- Press the Up key at the top of the screen to select feature 05 
- Use the Up/Down keys in the centre of the screen to select the UH1-W board number you are communicating with. (01-09)  
- Press the Up key at the top of the screen to select feature 06 
- Use the Up/Down keys 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 key at the top of the screen to select feature 07 
- Use the Up/Down keys in the centre of the screen to select if the thermostat will bring on the pump & boiler outputs  
00 = UFH Zone (Outputs enabled)
01 = Radiator Zone (Outputs not enabled)
- Press the DONE key 

- On the thermostat use the Up key to adjust the set temperature above the room temperature 
- Press DONE 

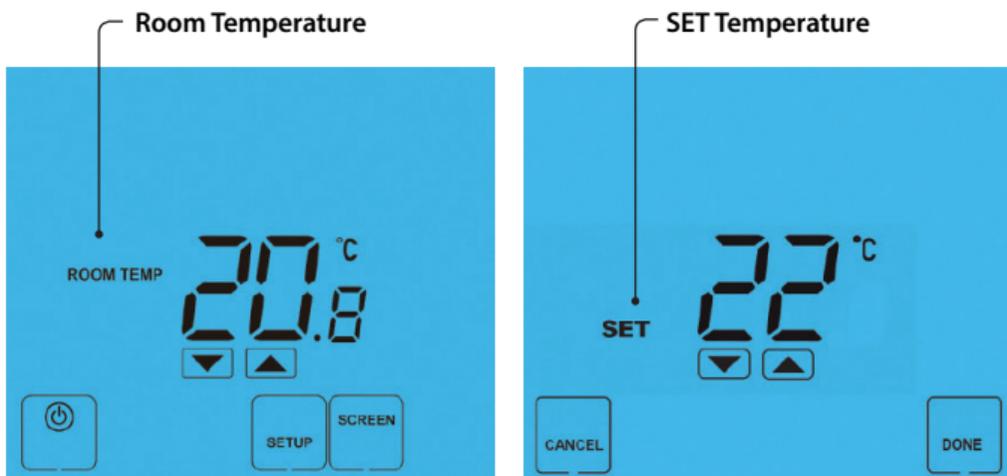
 You will now see the flame icon and after a few seconds the RF symbol will appear. The assigned zone on the UH1-W should now be active.



 If the output on the UH1-W is not activated, reduce the distance between the DT-UWTS and the UH1-W and check features 05-07 have been setup correctly, then repeat the above process.

Temperature Display

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



This is the current room temperature.

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

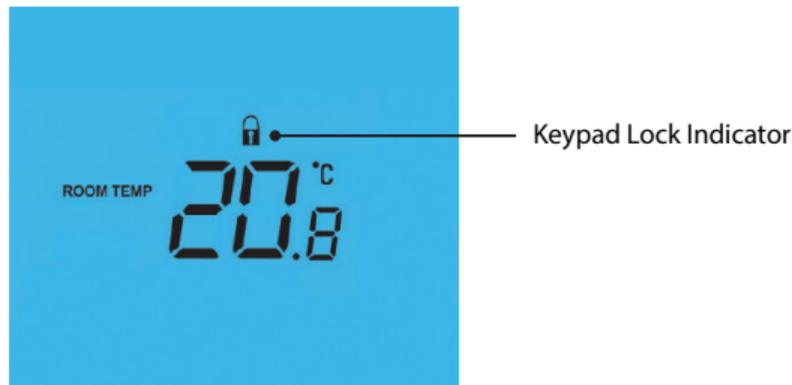
Clean Screen

Pressing **SCREEN** will disable all keys, providing you 15 seconds to wipe the screen clean before the keys are re-activated.

Locking the Keypad

The thermostat has a keypad lock facility.

- To activate the lock press the bottom right corner of the display and hold for 10s.
- When activated, you will see the Keypad Lock symbol.
- To cancel, press the bottom right corner of the display again for 10 secs.



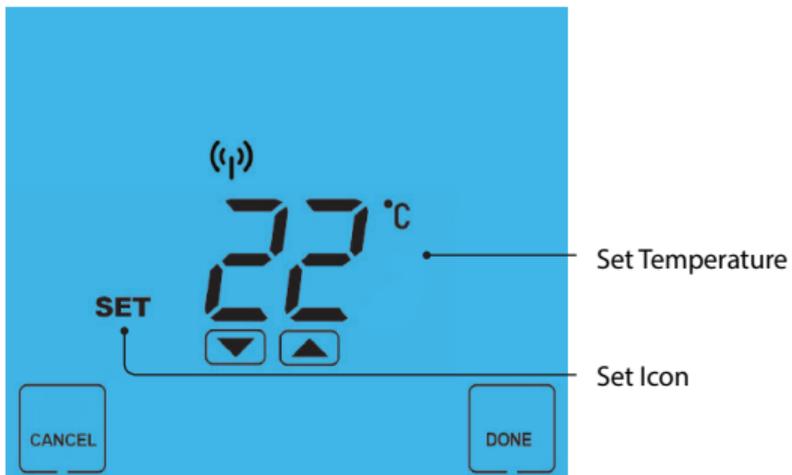


Temperature Control

The   keys under the temperature display allow you to adjust the set temperature.

When you press either of these keys, you will see the temperature and the word SET appear on screen.

Select the desired temperature and press  to confirm and exit.



Frost Mode

Pressing the  key 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 15).

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

To cancel the frost protect mode, press the  key once.



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 key 
The display and heating output will be turned off completely.

To turn the thermostat back ON, press the Power key once 



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 or °F.

Feature 02 - Switching Differential: This function allows you to increase the switching differential of the thermostat. The default is 1°C which means the thermostat will switch the heating on 1°C below the set temperature and will turn it off when the set temperature is achieved. With a 2°C differential, the heating will switch on 2°C below the set temperature and will switch off when the set temperature is achieved.

Feature 03 – 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 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 activate 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 in case the thermostat battery fails whilst you are away.

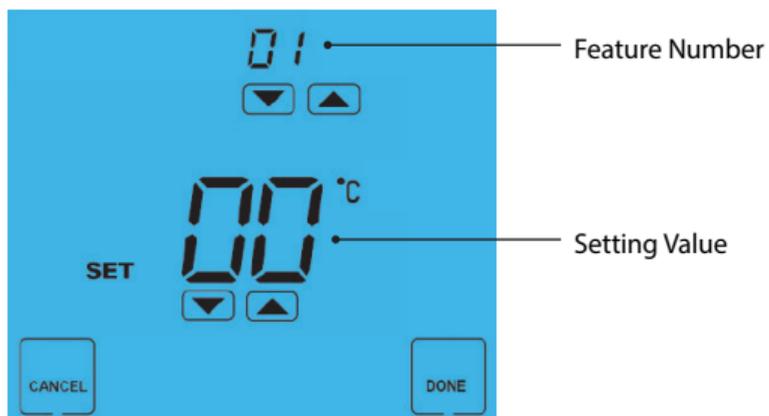
Feature 09 – Up/Down Temperature Limit: This function allows you to limit the use of the up and down temperature keys. This limit is also applicable when the thermostat is locked and so allows you to give others limited control of the heating system.



Adjusting the Optional Settings

To adjust the optional settings, follow these steps.

- Press SETUP



- Use the Up/Down keys at the top of the screen to select the feature number (shown on page 18) and then use the Up/Down keys in the center to adjust the setting

- Press DONE to confirm settings and exit



Optional Settings - Feature Table

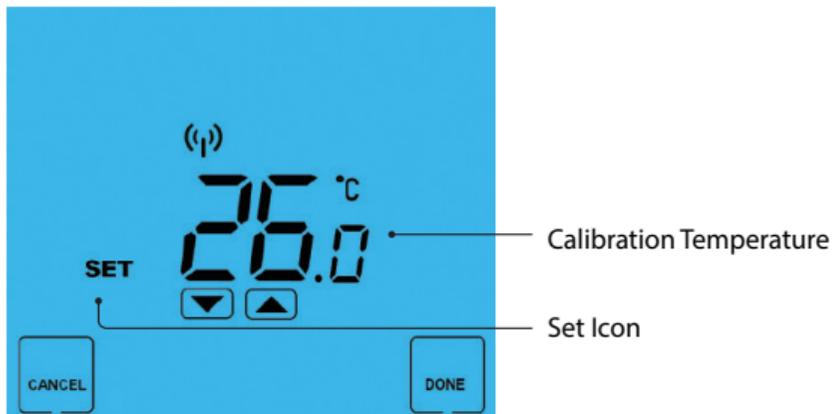
FEATURE	DESCRIPTION	SETTING
01	Temperature Format	00 = °C 01 = °F (°C = Default)
02	Switching Differential	0.5° - 3.0°C (1.0°C = Default)
03	Frost Protection Temperature	07° - 17°C (12°C = Default)
04	Output Delay	00 - 15 Minutes (00 = Default)
05	UH1-W Address	01 - 09
06	UH1-W Zone No.	01 - 08
07	UHF or Radiator	00 = UHF, 01 = Radiator
08	Fail Safe	00 = Disabled, 01 = Enabled
09	Up/Down Temperature Limit	00° - 10°C (00°C = Disabled)



Re-calibrating the Thermostat

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

- Press and hold the Power key to turn the thermostat OFF 
- Press and hold the OFF key until the temperature appears on screen 
- Use the Up/Down keys to configure the new temperature  
- Press DONE to confirm settings 
- Press the Power key once to turn the thermostat back ON 



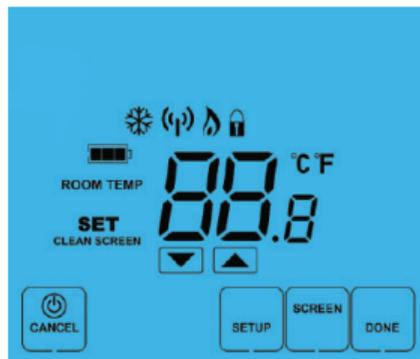
Factory Reset

The thermostat has a reset function to restore all settings to their factory defaults.

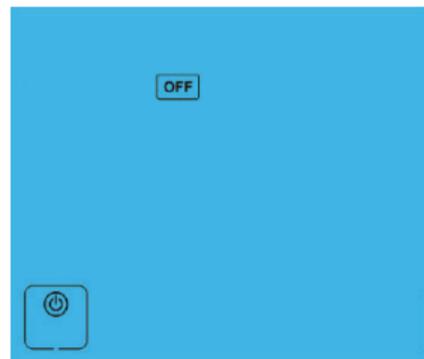
To perform a factory reset, follow these steps.

- Turn the thermostat OFF by pressing and holding the Power key. Press and hold the bottom left corner of the LCD for 10 seconds 
- All of the screen icons will appear for 2 seconds and then disappear.
- Press the Power key once to turn the thermostat back on 

All icons displayed simultaneously.



Factory reset is complete.





Battery Recharging

The thermostat is equipped with a rechargeable battery.

The battery can provide power for up to 6 months before recharging is required in normal operating conditions.

To recharge the battery you need to connect the thermostat to a power source.

A mini USB to USB lead is supplied with the thermostat so you can recharge from the USB port on your laptop or PC.



Part ref: USB-02





Heating Professionals:
Request a copy of our product installation guide containing detailed technical specifications for our complete product range:
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