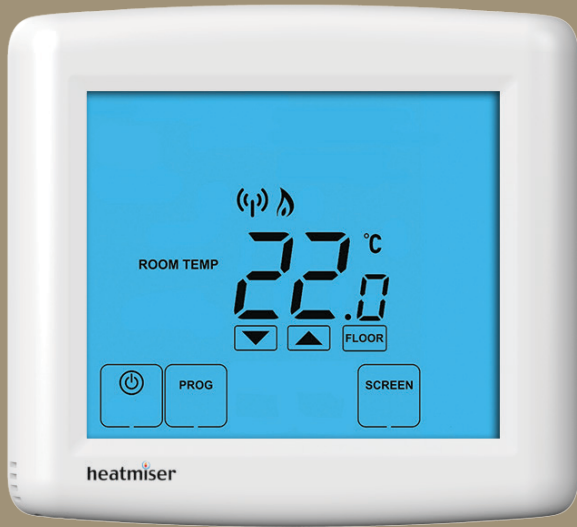


# heatmiser®



Model: **DT-EWTS**



## Table Of Contents

Product Image	1	Temperature Control	13
Table of Contents	2	Frost Protection	14
What is a Room Thermostat?	3-4	Heating ON/OFF	15
Installation Procedure	5-6	Optional Features Explained	16-17
LCD Display	7-8	Adjusting the Optional Settings	18
Pairing the Thermostat	9-10	Optional Settings - Features Table	19
Temperature Display	11	Re-calibrating the Thermostat	20
Clean Screen	12	Factory Reset	20
Locking the Keypad	12	Recharging the Batteries	21-22



## 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.

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.

This model DT-EWTS thermostat has been specifically designed to operate with electric underfloor heating systems.

Please read the instructions fully to understand all of the features of this DT-EWTS thermostat.



## 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.

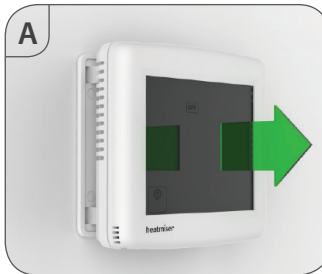
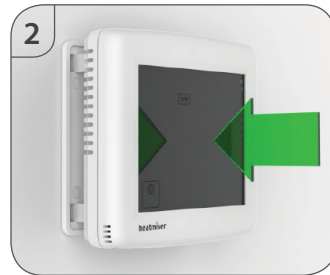
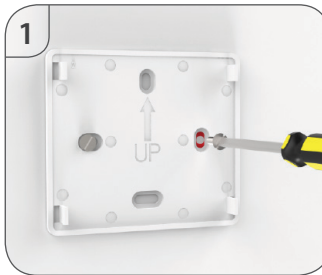
### Desk Stand:

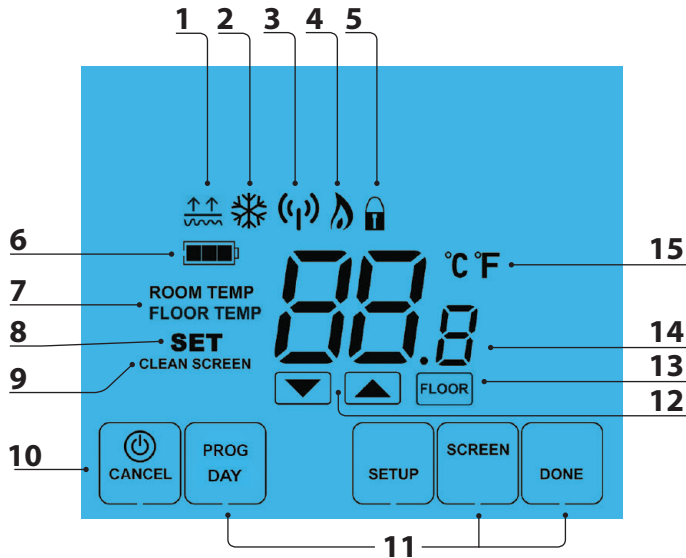
#### Step A

Remove the thermostat from the wall plate.

#### Step B

Release the desk stand.





## LCD LCD Display

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



## Pairing the Thermostat







To pair the thermostat with the RC2-WTS receiver, follow these steps.

### On the receiver;

Press the Pair button once.

The Communication LED will light up.

### On the thermostat;

- Press PROG and then SETUP .....  
- At the top of the LCD, you will see 01.
- Use the Up key to select 05 and enter the pairing function ..... 
- In the centre of the LCD, you will see 01. This is the channel address.  
The default setting of 01 can be used in most cases, but should be changed when a conflict is detected with other RF devices.
- Use the Up/Down keys to enter the address .....  
- Press SETUP to Pair the thermostat and receiver ..... 

**Note:** You must finish pairing the thermostat before the communication LED goes out.



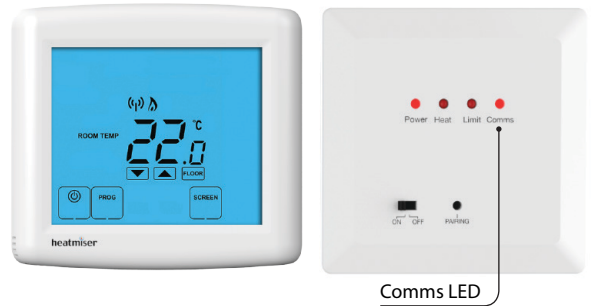
### Pair Successful

The Comms LED on the receiver should flash and then go out to indicate the pair is successful. The thermostat will display the communication icon.



### Pair Fail

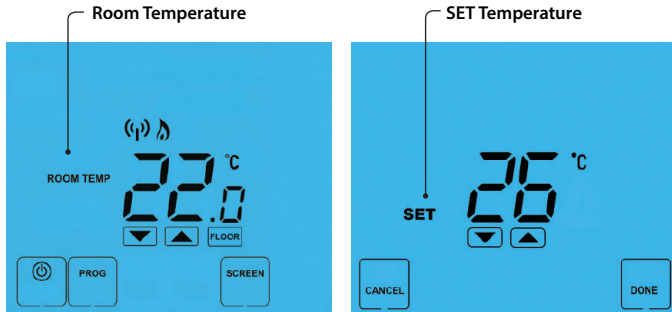
If the Comms LED does not flash there is a problem with the RF signal and you should reduce the distance between the thermostat and receiver. Where possible ensure there are no metal objects blocking the signal. The LED will automatically go out after 1 minute.





## 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.

When the thermostat is in air and floor sensing mode, the thermostat will display a FLOOR key. Pressing this allows you to view the current floor temperature. Pressing FLOOR again will return the thermostat to the room temperature display.




## Clean Screen

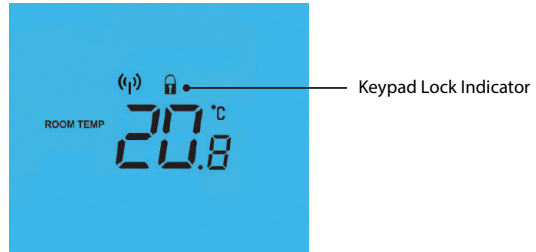
Pressing **SCREEN** will disable all keys, providing you 15 seconds to wipe the screen clean before the keys are re-activated.



## 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.




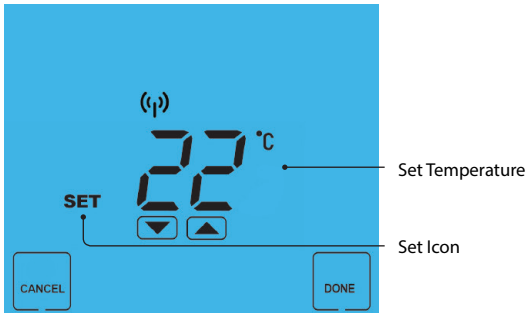


## Temperature Control


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.




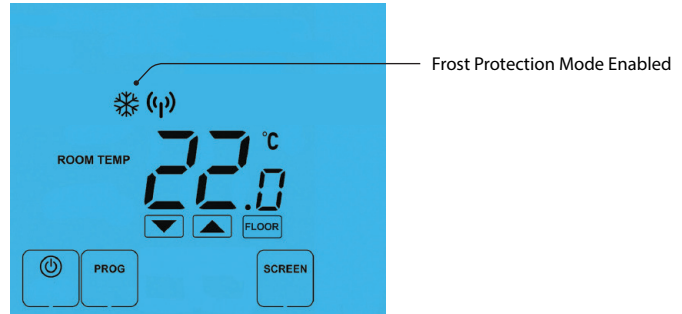
## Frost Mode

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 16).

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 ..... 

Thermostat completely OFF



Thermostat powered ON



## 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 – Pairing Function:** Allows the thermostat to be paired with the receiver.



## Optional Features Explained



**Feature 06 - 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.

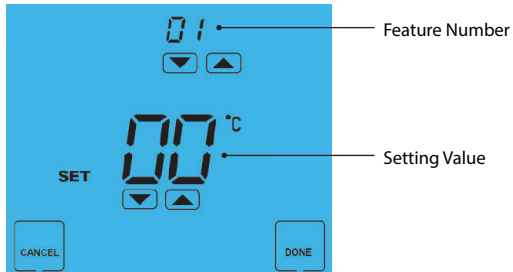
**Feature 07 – Floor Limit Temperature:** This thermostat uses the floor limiting sensor connected to the receiver to protect the floor surface from overheating. The floor limit is set from the thermostat but stored in the receiver. Should the RF link fail, the receiver will limit the floor from overheating. The limit can be adjusted from 20-45°C





## Adjusting the Optional Settings

To adjust the optional settings, follow these steps.

- Press PROG ..... 
- Press SETUP ..... 



- Use the Up/Down keys at the top of the screen to select the feature number (shown on page 19) 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	Pairing	Used to pair with the receiver
06	Fail Safe	00 = Disabled 01 = Enabled (00 = Default)
07	Floor Limit Temperature	20° - 45°C (28°C = Default)



## 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 ..... 



## 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:  
[www.heatmiser.com/guide](http://www.heatmiser.com/guide)

## Want More Information?

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

Or view technical specifications directly on our website:  
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