



# MYSON



Model: Touch-RS

Model: Touch-RS





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## What is a Programmable Room Thermostat?

A programmable room thermostat is both a programmer and a room thermostat.

The programmer allows you to set “On” and “Off” periods to suit your own lifestyle. The room thermostat 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.

So a programmable room thermostat lets you choose what times you want the heating to be on, and what temperature it should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your particular needs and preferences.

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 programmable 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 programmable room thermostat is to find the lowest temperature settings that you are comfortable with at the different times you have chosen, 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.

You are able to temporarily adjust the heating program by overriding or using the temperature hold feature. These features are explained further on pages 16 and 17 of this manual.

Programmable 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 install near to a direct heat source as this will affect functionality.

Do not push hard on the LCD screen as this may cause irreparable damage.

***This Touch-RS thermostat is designed to be flush mounted and requires a back box of 35mm (minimum depth) to be sunk into the wall prior to installation.***

### Step 1

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

### Step 2

Place the thermostat front somewhere safe.

Terminate the thermostat as shown in the diagrams on pages 26-27 of this booklet.

### Step 3

Screw the thermostat back plate securely into the back box.

### Step 4

Clip the front of the thermostat back onto the thermostat back plate.

1



2

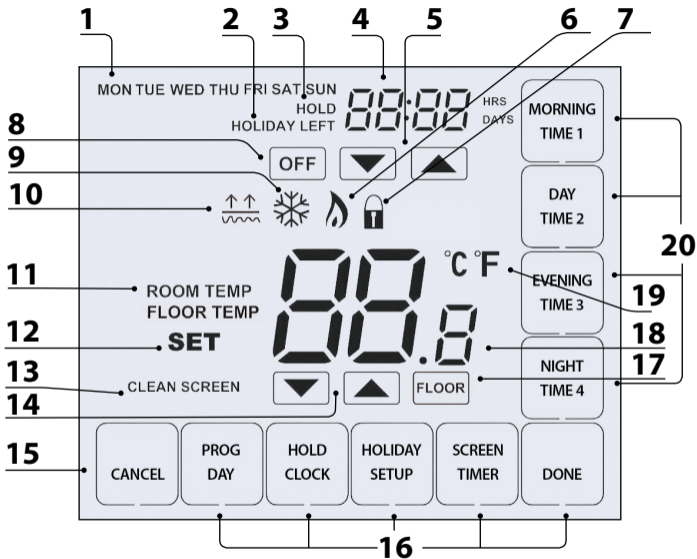


3



4







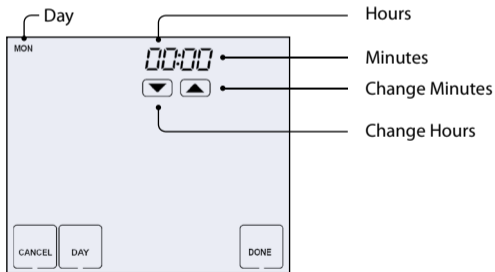
1. Day Indicator - Displays the day of the week.
2. Holiday Indicator - Displayed when the thermostat is in Holiday mode.
3. Temperature Hold - Displayed when the thermostat is in Hold mode.
4. Clock - Displays time in normal operation, time left in hold or days left in holiday mode.
5. Up/Down Keys - Increase or decrease values shown on top digit group.
6. Flame Icon - Displayed when the thermostat is calling for heat, the flame icon will
7. Keypad Lock Icon - Displayed when the keypad is locked.
8. OFF Key - Single press to enable/disable frost protection or press and hold to turn off display.
9. Frost Icon - Displayed when the thermostat is in frost protection mode.
10. Floor Temp Limit Icon - Displayed when the floor set point temperature is reached.
11. Room Temp - Indicates the current temperature sensor mode.
12. Set - Indicates when changes are being made to programs or temperature set points.
13. Clean Screen - Freezes screen temporarily to enable cleaning.
14. Up/Down Keys - Increase of decrease values shown on bottom digit group.
15. Cancel Key - Used to exit setup/program operations.
16. Setup/Programming Keys - Used to navigate setup options.
17. View Floor Temperature Key - Used to change display to show floor temperature..
18. Current Temp - Indicates the current sensor temperature.
19. Units of Temperature - Degrees Celsius or Fahrenheit.
20. Comfort Level Selection Keys - Used in comfort level setup (see page 11).



# Setting the Clock

To set the clock, follow these steps.

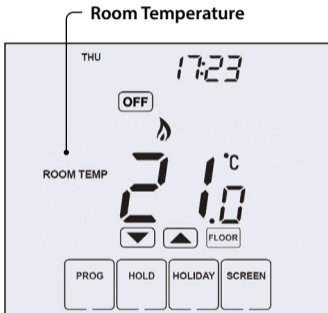
- Press PROG .....
- Press CLOCK .....
- Use the Down key to set the hours .....
- Use the Up key to set the minutes .....
- Use the Day key to set the day of the week .....
- Press DONE to confirm and exit .....



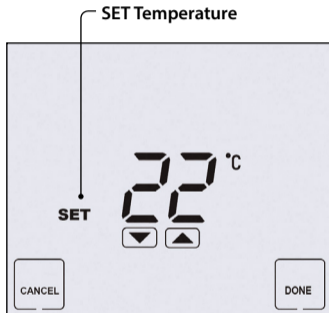


## Temperature Display




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.

The keys   under the temperature display allow you to view/adjust the set temperature. The  key will allow you to view the current floor temperature.



## Comfort Levels Explained

Comfort levels allow you to set different temperatures throughout the day. For example, you may want your home warm in the morning when you are getting ready for work, cooler during the day when your house is unoccupied and then warmer in the evening when you are home relaxing.

The thermostat offers 3 programming options:











- 5/2 Day Programming – allows you to program 4 comfort levels for the weekdays and 4 different comfort levels for the weekend.
- 7 day programming – Each day has 4 comfort levels that can be programmed independently.
- 24 Hour Programming - All days are programmed the same and repeat continuously.

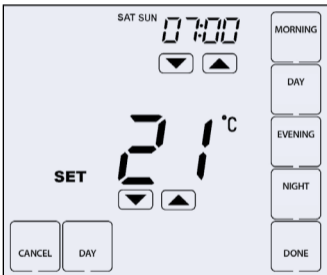
*See page 23 for details on how to switch between these modes.*

**Tip!** If you don't want to use all of the comfort levels, just set the time to --.--

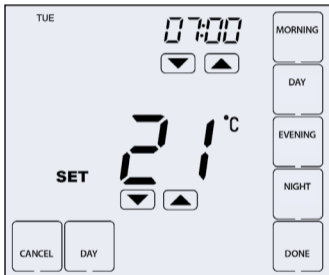
Default comfort levels (shown below) are pre-programmed but you can easily change them.

<b>Weekday Level</b>	<b>Time</b>	<b>Temp</b>
Morning	07:00	19°C
Day	08:30	16°C
Evening	16:00	21°C
Night	22:30	12°C
<b>Weekend Level</b>	<b>Time</b>	<b>Temp</b>
Morning	07:00	19°C
Day	08:30	18°C
Evening	16:00	21°C
Night	22:30	12°C


- Press PROG ..... 
- Select MORNING ..... 
- Use the Up/Down keys to set the time for MORNING period .....  
- Use the Up/Down keys to set the temperature .....  
- Repeat these steps for the DAY, EVENING & NIGHT periods .....   
- Press DAY to select the next day to program and repeat ..... 



*In 5/2 Day mode the thermostat will display "Sat Sun" prompting you to program the temperature levels for the weekend.*



*In 7 Day mode, the thermostat will display Tue.*

- When complete, press DONE to confirm settings and exit ..... 




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



Keypad Lock Indicator



## Temperature Control

The keys   under the temperature display allow you to view/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.

*Note: This new temperature is maintained only until the next programmed comfort level. At this time, the thermostat will revert back to the programmed levels.*

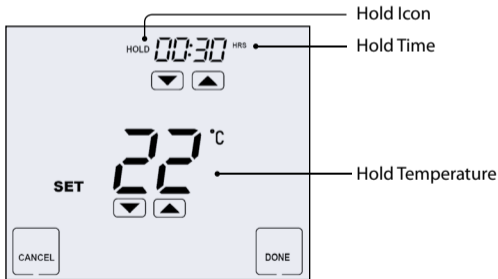
*\*See page 10 for set temperature display.*



## Temperature Hold

The temperature Hold function allows you to manually override the current operating program and set a different temperature for a desired period.

- Press HOLD .....
- Use the top set of Up/Down keys to set the hold period .....
- Use the center set of Up/Down keys to set the hold temperature .....
- Press DONE to confirm and exit .....



To cancel a Temperature Hold, follow the same steps but reduce the time to 00:00.





## Holiday

The Holiday function reduces the set temperature in your home to the frost protection temperature setting (see page 19) and disables the hot water output.

The thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

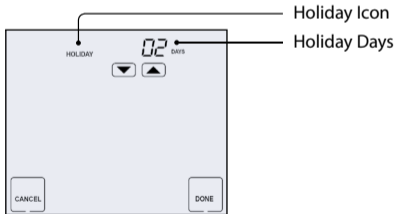
- Press HOLIDAY .....
- Enter the desired duration in days .....
- Press DONE to confirm and exit .....

HOLIDAY



DONE

*Note: A holiday period does not start until 00:00 the next day. For example, if you set a holiday period on Friday for 2 days, Saturday will be counted as the first day and the thermostat will revert back to the programmed schedule at 00:00 on Monday.*



To cancel a Holiday setting, reduce the Holiday time to 00 days.



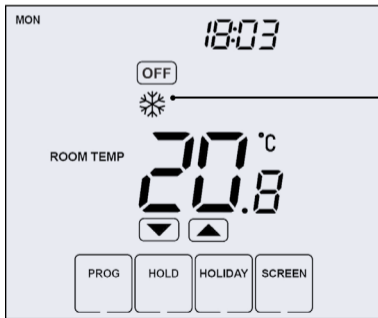
## Frost Mode

Pressing the **OFF** 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 21).

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

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



Frost Protection Mode Enabled



## 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 OFF key .....

The display and heating output will be turned off completely.\*

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

Thermostat completely OFF



Thermostat powered ON



\*See Feature 3 on page 21



## 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:** 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 06-17°C. The default is 06°C and is suitable for most applications.

**Feature 05 – 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 06 – Communication Address:** This setting does not apply to this model.

**Feature 07 – Temperature Up/Down Limit:** This function allows you to limit the use of the up and down keys. This limit is also applicable when the thermostat is locked and so allows you to give others limited control over the heating system.

**Feature 08 – Sensor Selection:** Sensor Selection: On the Touch-RS, you can select which sensor should be used. You can select between built in air temperature only, remote air sensor only or built in sensor & floor temperature. When you enable option 02 (built in & floor) the floor sensor is used as a floor limiting sensor and is designed to prevent the floor from overheating.

**Feature 09 – Floor Limit Sensor:** This function allows you to set a maximum floor temperature in order to protect the floor surface from overheating. This function only applies when the floor sensor is enabled. (see feature 08) The default setting is 28°C but this can be adjusted from 20 - 45°C.

**Feature 10 – Smart Start:** Smart start will delay the start up of the heating system to the latest possible moment to avoid unnecessary heating and ensure the building is warm at the programmed time. The thermostat uses the rate of change information to calculate how long the heating needs to raise the building temperature 1°C (with a rate of change of 20, the thermostat has calculated the heating needs 20 minutes to raise the building temperature 1°C) and starts the heating accordingly.

**Feature 11 – Rate Of Change:** This is the number of minutes the thermostat has calculated it takes to raise your building temperature 1°C. The thermostat will continue to monitor and learn the heat up time of your home to optimise heating efficiency.

**Feature 12 – Program Mode:** The thermostat offers 3 programming options.

5/2 Day Programming – allows you to program 4 comfort levels for the weekdays and 4 different comfort levels for the weekend.

7 day programming – Each day has 4 comfort levels that can be programmed independently.

24 Hour Programming - All days are programmed the same and repeat continuously.



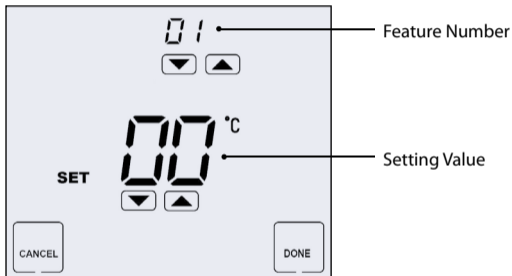
## Adjusting the Optional Settings

To adjust the optional settings, follow these steps.

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

PROG

SETUP



- Use the Up/Down keys at the top of the screen to select the feature number (shown on page 22) and then use the Up/Down keys in the center to adjust the setting .....
- Press DONE to confirm settings and exit .....



DONE



## Optional Settings - Feature Table

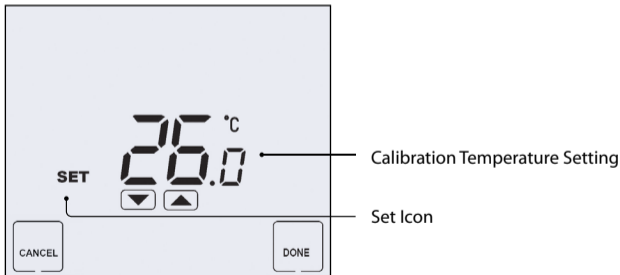
FEATURE	DESCRIPTION	SETTING
01	Temperature Format	00 = °C, 01 = °F (°C = Default)
02	Switching Differential	0.5° - 3.0°C (1°C = Default)
03	Frost Protect	00 = Disabled, 01 = Enabled (01 = Default)
04	Frost Protection	06° - 17°C (06°C = Default)
05	Temperature Output Delay	Enter Value: 00 - 15 Minutes (00 = Default)
06	Communications ID No.	Not used on this model
07	Up/Down Temperature Limit	00° - 10°C (00 = Default)
08	Sensor Selection	00 = Built in Sensor 01 = Remote Air Sensor 02 = Built in & Floor sensor
09	Floor Temperature Limit	20°C-45°C (28°C Default)
10	Smart Start	00 = Disabled (Default) 01 = 01hr, 02 = 02hr, 03 = 03hr
11	Rate of Change	Minutes to raise by 1°C
12	Program Mode	00 = Weekday/Weekend (Default) 01 = 7 Day 02 = 24 Hour



## Re-calibrating the Thermostat

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

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

- Press & hold the OFF key to turn the thermostat display OFF ..... **OFF**
- 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 ON key once to turn the thermostat display back ON ..... **ON**

All icons displayed simultaneously.



Factory reset is complete.



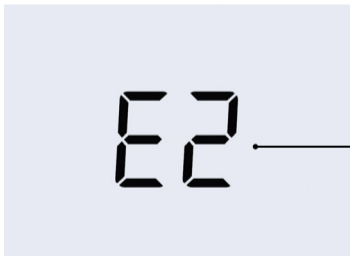


## Error Codes

**E0** = The internal sensor has developed a fault.  
You should contact your thermostat retailer for assistance.

**E1** = The remote floor probe has not been connected, has been wired incorrectly or the probe is faulty.

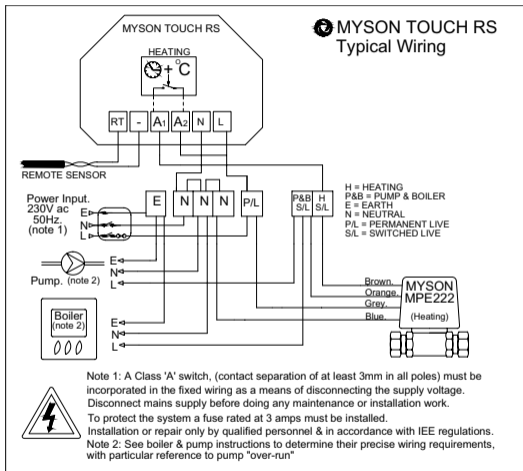
**E2** = The remote air probe has not been connected, has been wired incorrectly or the probe is faulty.



— Error Number



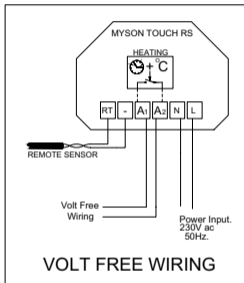
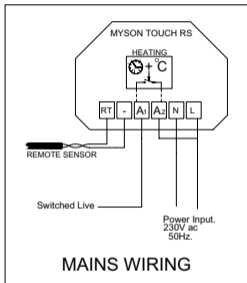
# Wiring Diagram





# Wiring Diagram

## MYSON TOUCH RS Typical Wiring

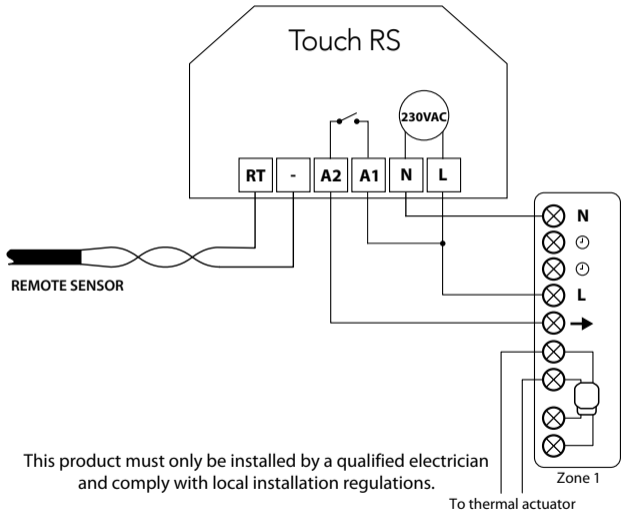


A Class 'A' switch, (contact separation of at least 3mm in all poles) must be incorporated in the fixed wiring as a means of disconnecting the supply voltage. To protect the system a fuse rated at 3 amps must be installed. Installation or repair only by qualified personnel & in accordance with IEE regulations.



# Wiring Diagram

Touch RS to UFH Wiring Centre 230V & optional probe connection



This product must only be installed by a qualified electrician and comply with local installation regulations.

To thermal actuator



# MYSON

## Want More Information?

Call our support team on: +44 (0)845 402 3434

Or view technical specifications directly on our website:  
[www.myson.co.uk](http://www.myson.co.uk)

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