



Touch 2 WiFi V2

Model: Touch 2 WiFi V2





Table of Contents

Product Image	1
Table of Contents	2
What is a Programmable Room Thermostat?	3-4
Installation Procedure	5-6
Mode Select	7
Pairing the Touch 2 Hub	8
Pairing the Touch 2 WiFi	8-9
What is a Mesh Network?	9
Mode 1 - Thermostat	10
Mode 1 - Thermostat LCD Display	10
LCD Display	11-12
LCD Display Temperature Display	11-12
LCD Display Temperature Display Setting the Clock	11-1: 13
LCD Display Temperature Display Setting the Clock Setting the Comfort Levels	11-12 13 14 15-10

Frost Protection	20
Power ON/OFF	21
Holiday Programming	22
Optional Features	23-26
Re-calibrating the Thermostat	27
Error Codes	27
Thermostat Mode Wiring Diagrams	28-31
Factory Reset	32
Mode 2 - Time Clock	33
LCD Display	33-34
Setting the Switching Times	35
Timer Override	36
Timer Override	
Optional Features	37
	37 37



What is a Programmable Room Thermostat?

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

A programmer allows you to set "On" and "Off" periods to suit your own lifestyle.

A 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 programmable 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 and 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 17 and 18 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



D٥

Mount the thermostat at eve 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 2 WiFi 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

Remove the screw from the bottom face of the thermostat then carefully separate the front half from the back plate.

Step 2

Place the thermostat front somewhere safe.

Terminate the thermostat as shown in the diagrams on pages 28-31 of this booklet. Note: For time clock wiring connections, terminate as shown on page 38.

Step 3

Screw the thermostat back plate securely into the back box.

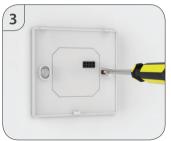
Step 4

Clip the front of the thermostat onto the back plate, securing it in place with the retaining screw.







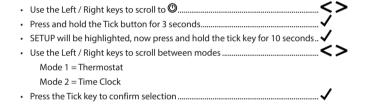






This Touch 2 WiFi can either be used as a thermostat or a time clock. Thermostat mode is the default setting.

To change between thermostat or time clock modes, follow these steps.



The Touch 2 WiFi will revert to the main display screen for the selected mode.

For time clock mode instructions, first pair the time clock with the Touch 2 Hub as explained on page 8, then turn to page 33.



Pairing the Touch 2 Hub

To pair the Touch 2 Hub with the Myson Touch 2 App, follow these steps.

- Connect the Touch 2 Hub to your router with the Ethernet cable provided.
- Connect the power supply to the Touch 2 Hub.
- The router will automatically assign an IP address to the Hub, the Link LED will light up RED once the Hub has connected to your network.
- · Once connected to the cloud server, the Link LED will turn GREEN.
- Connect your smartphone or tablet device to the same WiFi network as your router.
- Download the FREE Myson Touch 2 App from the Apple App Store or Google Play Store and register your account.
- Once you have registered, press Sign In, then press Add Location.
- Press the connect button on the Touch 2 Hub to add the location to your account.
- · When successfully connected, enter a title for the location (e.g. Home).

(1)

Pairing the Touch 2 WiFi

The next step is to join the Touch 2 WiFi to the Touch 2 Hub, we recommend joining the Touch 2 WiFi located nearest to the Touch 2 Hub first.

To add a Touch 2 WiFi, follow these steps;

- In the app, select ADD ZONE, enter a preset or custom title, then press NEXT.
- You now have two minutes to join the Touch 2 WiFi to the Hub.
- On the Touch 2 WiFi, use the Left / Right keys to select (power icon), press and hold Tick.
- · SETUP will be highlighted, now press the tick key once.
- · Feature 01 is displayed on screen.



- Press the Tick key to pair the Touch 2 WiFi to the Touch 2 Hub
- · The MESH symbol appears flashing on the display.
- When the Touch 2 WiFi successfully connects to the Touch 2 Hub the MESH symbol will be permanently displayed.
- Press ADD ANOTHER for additional zones or press FINISH to complete setup.
 Please note, you only have to pair the hub to your account once.
 To pair any additional Touch 2 thermostats, select HOME, edit, then ADD ZONE.

? What is a Mesh Network

Touch 2 WiFi work using a mesh network, meaning Touch 2 WiFi have the ability to send & receive signals via other thermostats on the network. This signal is relayed from one thermostat to another until it reaches its destination. This communication method extends the communication range whilst offering increased network stability when compared with standard RF thermostats.

The Mesh symbol is shown when the device is communicating with the Touch 2 Hub, if the mesh symbol disappears this indicates connection to the Touch 2 Hub has been lost.



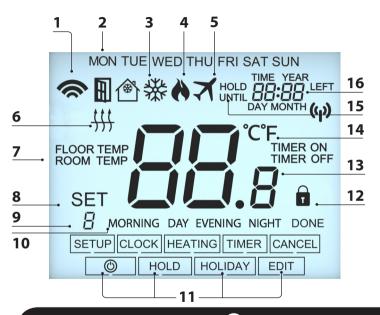
Approach Sensor

The Touch 2 WiFi V2 uses proximity to detect when you are about to use the touch keys. As you approach the Touch 2 WiFi V2, the touch keys and backlight will light up. This can be useful if you need to adjust the set temp or timer in a dark room.



1 Mode 1 - Thermostat



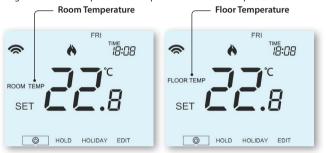


LCD LCD Display

- 1. Mesh Symbol Displayed when connected to the Touch 2 Hub.
- Day Indicator Displays the day of the week.
- 3. Frost Protection Displayed when frost protection is enabled.
- Flame Symbol Displayed when the thermostat is calling for heat and flashes when Smart Start is active.
 - 5. Holiday Displayed when the thermostat is in holiday mode.
- Floor Limit Symbol Displayed when the floor probe has reached the floor temperature limit configured in the setup menu.
- 7. Floor/Room Temp Indicates the displayed sensor mode.
- 8. Set Displayed when changes are being made to the current set point.
- Program Indicator Displayed during programming (6 level mode) to show which level is being altered.
- Program Indicator Displayed during programming (4 level mode) to show which level is being altered.
- 11. Main Menu Displays which option is currently selected.
- 12. Keypad Lock Indicator Displayed when the keypad is locked.
- 13. Temperature Displays the current sensor temperature.
- 14. Temperature Format Degrees Celsius or Fahrenheit.
- Hold Left Displayed when a temperature hold is active, the remaining time will be shown.
- Time/Day/Month/Year Displays when setting the Clock/Calendar or a Holiday Period.



This Touch 2 WiFi can be configured for different sensor options such as built in air sensor, floor sensor or both. The display will clearly indicate which sensor is being used by showing either "Room Temp" or "Floor Temp" before the actual temperature value.



When the Touch 2 WiFi is set to use both the air & the floor sensor, the room temperature will be dispalyed by default.



Setting the Clock

To set the clock, follow these steps.

- Use the Left / Right keys to scroll to ©
- Press and hold Tick to turn off the display
- Use the right arrow key to select CLOCK
- Press Tick to confirm selection
- Use Up / Down keys to set the year
- Repeat the steps to set the Month, Date & Time
- Press Tick to confirm the new clock settings
 Use the down arrow to scroll to

Press Tick to turn the display on

Day ——— MON

18:08 • Tim

SET

CLOCK



The Touch 2 Wifi offers three program mode options; Weekday/Weekend programming, 7 Day programming and 24 Hour programming. There is also the option to use the thermostat as a Non-Programmable thermostat.

When thermostats are connected to the mesh network, the program mode for the system is configured by using the Myson Touch 2 App.

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

07:00 - 21°C (Morning) 09:00 - 16°C (Day) 16:00 - 21°C (Evening) 22:00 - 16°C (Night)

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

For Weekday/Weekend programming, the four comfort levels are the same for Mon-Fri, but can be different for Sat-Sun. For 7 Day programming each day of the week can have four different comfort levels. In 24 Hour mode all days are programmed with the same comfort levels.

- To program the comfort levels, use the Left / Right keys to scroll to EDIT
- Use the Left / Right keys to select day / period of week (the selection will flash).
- $\bullet \quad \mathsf{MORNING} \ \mathsf{will} \ \mathsf{now} \ \mathsf{flash} \ \mathsf{and} \ \mathsf{the} \ \mathsf{current} \ \mathsf{time} \ \mathsf{and} \ \mathsf{temperature} \ \mathsf{setting} \ \mathsf{will} \ \mathsf{be} \ \mathsf{shown}.$

Use the Up / Down keys to set the hours	\ \ \
Press Tick to confirm	✓
Use the Up / Down keys to set the minutes	N V
Press Tick to confirm	
Use the Up / Down keys to set the temperature	\ \ \
Press Tick to confirm the settings	√
Press the right arrow key	
DAY will now flash and the current settings will be displayed.	
Press Tick to alter DAY settings	✓
Repeat these steps to set all comfort levels.	
For any unused periods set time to:	
Use the Left / Right keys to scroll to DONE and press Tick	<> \





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.





Temperature Hold

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

Use the Left / Right keys to scroll to HOLD
Press Tick to confirm selection
Use the Up / Down keys to set the desired Hold period
Press Tick to confirm selection
Use the Up / Down keys to set the desired Hold temperature
V
Press Tick to confirm selection

You will see the HOLD LEFT indication is displayed on screen.

The time will countdown the set duration and then revert to the normal program.



To cancel the hold, while HOLD is selected on the menu press tick, then press tick again to cancel.





Locking the Touch 2 Wifi

The thermostat has a keypad lock facility. To activate the lock follow these steps.

- Use the Left / Right keys to scroll to HOLD & press Tick for 10 seconds.
- The display will show 00:00 and you will need to enter a four digit pin number.

- Press Tick to confirm

The display will return to the main screen and display the keypad lock indicator



Unlocking the Touch 2 Wifi

To unlock the Touch 2 Wifi press Tick once. The display will show 00:00 and you will need to enter the four digit pin number you set previously.

- Use the Up / Down and Tick keys to enter the second two digits Λ V \checkmark

The display will unlock and return to the main screen.



In this mode, the Touch 2 Wifi will display the frost icon and will only turn the heating ON should the room temperature drop below the set frost temperature (see page 23). If the heating is turned ON whilst in frost mode, the flame symbol will be displayed.

To cancel the frost protect mode, navigate to the Power button again and press Tick.



Frost Protection Mode Enabled



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 Touch 2 Wifi remains active.

To turn the Touch 2 Wifi off completely, scroll to the Power Icon and hold the Tick key for approximately 4 seconds until the display goes blank



The display and heating output will be turned OFF.

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



Thermostat completely OFF



Thermostat powered ON





In thermostat mode, the holiday function reduces the set temperature in your home to the frost protection temperature setting (see page 23).

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

In time clock mode, the holiday function maintains the timed output as OFF. Set a date & time for the holiday period to end, using the steps below;

Note: The holiday period will start immediately, and will return to the normal program at the time & date you have configured.

- Use the Left / Right keys to scroll to HOLIDAY and press Tick.....
- CANCEL will be highlighted, Press Tick to cancel



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

Feature 01 – Pairing To Touch 2 Hub: This function is used to connect the thermostat to the Touch 2 Hub.

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 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 – Temperature Up/Down Limit: This function allows you to limit the use of the up and down temperature arrow 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 06 – Sensor Selection: On this Touch 2 Wiff, you can select which sensor should be used. You can select between air temperature only, floor temperature, or both. When you enable both sensors, the floor sensor is used as a floor limiting sensor and is designed to prevent the floor from overheating.

Feature 07 – Floor Temp Limit: This function is available when mode 07 is set to 03 or 04. You can set a floor limiting temperature between 20-45°C (28°C is the default setting). Note: Air Sensor only MUST NOT be used to control electric under-floor heating. Floor Sensor or Both should be used.

Feature 08 – 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 09 - Rate of Change: Number of minutes for 1°C temperature rise.

Feature 10 – Not used on this model.

Feature 11 - Not used on this model

Feature 12 – Program Mode: Non-Programmable, Weekday/Weekend (5/2), 7 Day Programming or 24 Hour. The thermostat offers three programming modes and the

/ Day Programming or 24 Hour. The thermostat offers three programming modes and the option of configuring it to work as a non-programmable thermostat.

Weekday/ Weekend - allows you to program 4 comfort levels for the weekday and 4 different comfort levels for the weekend.

7 Day Program Mode - Each day has 4 comfort levels that can be programmed independently.

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

Feature 13 - Temperature Format: This function allows you to select between °C and °F.





Adjusting the Optional Settings

- Use the Left / Right keys to scroll to
 Press and hold the Tick button for 3 seconds
 ✓
- SETUP will be highlighted, now press the tick key once



- Use the Left / Right keys to adjust the setting within each feature
- Press Tick to confirm and exit setup menu



Optional Settings - Feature Table

FEATURE	DESCRIPTION	SETTING
01	Pairing	Used to add zone to the Touch 2 Hub
02	Switching Differential	00.5 = 0.5°C 01 = 1.0°C (Default) 02 = 2.0°C 03 = 3.0°C
03	Frost Protection Temperature	07° - 17°C (12°C = Default)
04	Output Delay	00 - 15 Minutes (00 = Default)
05	Up/Down Temperature Limit	00° - 10°C (00 = Default)
06	Sensor Selection	00 = Built in Sensor (Default) 01 = Remote Air Sensor 02 = Floor Sensor Only 03 = Built in & Floor Sensor 04 = Remote Air & Floor Sensor
07	Floor Temperature Limit	20°C - 45°C (28°C = Default)
08	Smart Start	00 - 05 Hours (00 = Default)
09	Rate of Change	Minutes to raise by 1°C
10	Not used on this model	Not Used
11	Not used on this model	Not Used
12	Program Mode	00 = Non - Programmable 01 = Weekday/Weekend (Default) 02 = 7 Day Programming 03 = 24 Hour Mode
13	Temperature Format	$00 = {}^{\circ}C$. $01 = {}^{\circ}F$ (00 = Default)



Re-calibrating the Thermostat



Error Codes

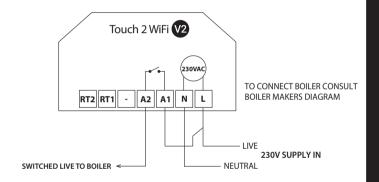
When terminated for thermostat operation the screen will display an error code if a fault is detected.

- E0 = The internal sensor has developed a fault.
- E1 = The remote FLOOR probe has not been connected. The remote FLOOR probe has not been wired correctly.
 - The remote FLOOR probe is faulty.
- E2 = The remote AIR probe has not been connected.

 The remote AIR probe has not been wired correctly.
 The remote AIR probe is faulty.



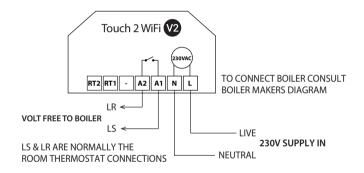
Wiring Diagram - Touch 2 WiFi to Boiler S/L





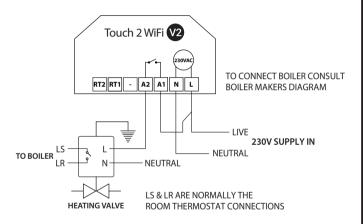
29

Wiring Diagram - Touch 2 WiFi to Boiler Voltfree





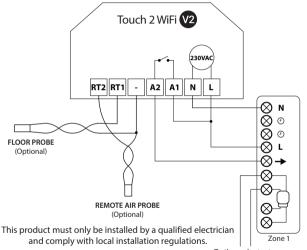
Wiring Diagram - Touch 2 WiFi to Valve





Wiring Diagram

Touch 2 WiFi to UFH Wiring Centre 230V & optional probe connections

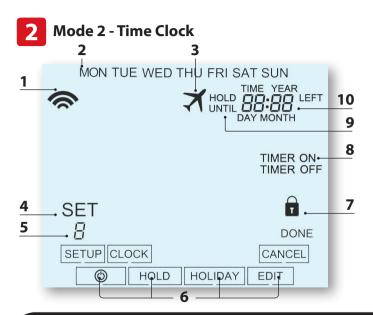


To thermal actuator



To reset the device to factory default settings, follow these steps: • Press and hold Tick to turn the display OFF SETUP will be highlighted Press and hold the Tick key for 10 seconds • All of the icons on the display will appear for 2 seconds, then you will see the number 1 or 2 flashing. • Use the Left / Right keys to scroll between modes (selection will flash) Mode 1 = Thermostat Mode 2 = Time ClockThe Touch 2 WiFi will revert to the main display screen for the selected mode.

Note: Factory reset will cancel all parameters that were entered during the set-up and pairing operations. These processes must be repeated after factory reset is completed.



LCD Display

- 1. Mesh Symbol Displayed when connected to the Touch 2 Hub.
- 2. Day Indicator Displays the day of the week.
- 3. Holiday Displayed when the time clock is in holiday mode.
- 4. Set Displayed when changes are being made to the current set point.
- Program Indicator Displayed during programming to show which level is being altered.
- 6. Main Menu Displays which option is currently selected.
- 7. Keypad Lock Indicator Displayed when the keypad is locked.
- 8. Timer Status Displays the current state of the timed output.
- Hold Left Displayed when a timer hold is active, the remaining time will be shown.
- Time/Day/Month/Year Displays when setting the Clock/Calendar or a Holiday Period.



Setting the Switching Times

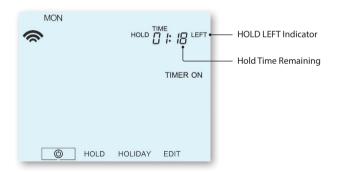
To program the switching times, follow these steps. Use the Left / Right keys to select day/period of the week Press Tick to confirm selection 1 will now flash and the current ON time will be displayed. The OFF time can be viewed by pressing the Down key Select a switching time and press the Tick key Use the Up / Down keys to select the ON time HOURS and press Tick $\bigwedge V \checkmark$ Use the Up / Down keys to select the ON time MINUTES Λ VPress Tick to confirm selection Use the Up / Down keys to select the OFF time HOURS and press Tick $\bigwedge V$ Use the Up / Down keys to select the OFF time MINUTES Λ VPress Tick to confirm selection Press the Right arrow key 2 will now flash and the current ON time will be displayed. Repeat the steps above to set all periods. For any unused periods enter --: --When complete, use the Left / Right keys to scroll to DONE and press Tick to confirm all changes



To override the timed output on, follow these steps.

- Use the Up / Down keys to set the override duration e.g. 02:00 hours ΛV

Hold Left and the remaining time will now be displayed.





Optional Features Explained

Feature 01 – Pairing To Touch 2 Wifi: This function is used to connect the time clock to the Touch 2 Huh

Feature 02 - Weekday/Weekend (5/2), 7 Day Programming or 24 Hour Mode:

The time clock offers three programming methods;

Weekday/ Weekend (5/2) - Allows you to program 4 on/off switching times for the weekdays and 4 on/off switching times for the weekend.

7 Day Program Mode - Each day has 4 on/off switching times that can be programmed independently.

24 Hour Mode - All days are programmed with the same on/off switching times.

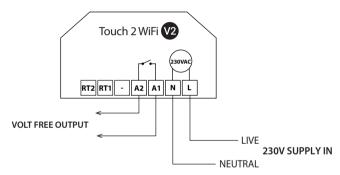


Optional Settings - Feature Table

FEATURE	DESCRIPTION	SETTING
01	Pairing	Used to pair to the Touch 2 Hub
02	Program Mode	01 = Weekday/Weekend Programming (Default) 02 = 7 Day Programming 03 = 24 Hour Mode



Wiring Diagram - Time Clock Mode



FOR 230V OUTPUT ON A2 LINK LIVE TO A1



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

MYSON

Eastern Avenue, Team Valley, Gateshead, Tyne & Wear NE11 0PG, UK

T: +44 (0)845 402 3434

F: +44 (0)191 491 7568

sales@myson.co.uk www.myson.co.uk

