

MWD5 MANUAL - HYDRONIC

A Comfort Heat heating system has been installed in your floor. Floor heating warms from the ground up providing an unparalleled feeling of comfort. This heating system is controlled by an electronic thermostat and floor sensor for optimum temperature control.

MWD5 DETAILS

The MWD5 WiFi touch screen thermostat has a built in programmable time-clock to automatically turn the heating system UP and DOWN at selected times.

During the DOWN periods the floor does not turn OFF but programs the floor temperature to a setback temperature. The floor is heating when the LCD display temperature turns red. Thermostats can be vertically or horizontally flush mounted and have a 2 pole isolator with 16A output relay.

PRIOR TO TURNING ON

Concrete slabs and screeds must be fully cured before turning the floor heating system on. Wait at least 3 weeks and when turning on for the first time, increase the floor temperature gradually over 2-3 days.

Under timber and radiators systems can be turned on once installation is complete.

SUGGESTED TEMPERATURE SETTINGS

AREAS	SLAB/TILE/CARPET FLOORING	TIMBER FLOORING	RADIATORS
SUGGESTED FLOOR TEMP.	21-24°C	24°C max.	
SUGGESTED AIR TEMP.			21-25°C



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TECHNICAL DATA - MWD5

Supply Voltage :	240V AC, 50/60hz
Output Relay :	16A SPST, 3600W max
Switching Differential :	0.4 degC
Built-in Switch :	2 pole 16A
Temperature Range :	0/+40 degC
Clock Function :	Up to 7 different 4 or 6 event program combinations
Display :	220 x 176 pixel TFT - colour touch
Housing/protection :	IP21
Dimensions (HxWxD) :	114mm x 84mm x 40mm
Mounted :	Vertical or Horizontal
Thermostat Warranty :	2 years

MWD5 OPERATION SETTINGS - HYDRONIC

PRESET HEATING SCHEDULE

Monday – Friday [Work Days]	ON at 6am - 25°C Setback at 9am - 20°C ON at 5pm - 25°C Setback at 10.00pm - 20°C	Saturday - Sunday [Home Days]	ON at 8am - 25°C Setback at 11pm - 20°C
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RUNNING GUIDELINES

Gas systems are ideal for on-demand heat. Gas boilers are efficient any time of day, quiet to run and billed at a flat rate.

Heat Pump systems are at the fore-front of hydronic heating and can be highly cost efficient to run. Heat pumps require a range of considerations when running for example, the location, appropriate time of use and efficient times to run.

In-Slab installations are typically large and have excellent thermal mass. Initially, the slab may take a few days to warm and then only requires to be topped up to create an all day warmth. Allow 2-4 hours for the slab to top up.

In-Screed installations typically heat up in around 2-3 hrs depending on the screed thickness. Screeds will retain the heat for a few hour and by keeping doors closed and windows shut, retain the warmth for an efficient and comfortable room temperature. Programme the in-screed heating to run when at home, based on your lifestyle.

Under-Timber installations warm the small air space below the timber allowing this warmth to gently rise into the room. Under timber heating has a maximum temperature limit and may require supplemental heating to warm the room.

Radiator systems are ideal for on-demand heat. One *master thermostat* and *radiator* typically control the whole system based on the air temperature. Each additional radiator is then fitted with a tempering valve that is manually adjusted to regulate each room. Radiators will warm a room in around 1-2 hours, programme the radiator heating to run when at home, based on your lifestyle.

IMPORTANT SETTINGS TO ADJUST & CHECK WITH EVERY MWD5

Adaptive Function – Turn OFF

Press ;

- > Menu 
- > Arrow down
- > Engineer Settings
- > **Adaptive Function**
- > Turn OFF
- > Tick



Adaptive Function - Turn OFF

This feature enables the room to reach the set temperature at a set time. Adaptive function calculates the heat up time and will turn the system on or off to achieve the set temperature at the set time.

Eg. Thermostat calculates it must turn on at 5.00am **to be at 25°C at 6am**, as opposed to turning on at 6am to heat to 25 °C.

Open Window - Turn OFF

Press ;

- > **Open Window**
- > Turn OFF
- > Tick



Open Window - Turn OFF

The thermostat can detect an open window by registering a rapid drop in room temperature. With the function enabled, the thermostat shuts off the floor heating for 30 minutes.

Temp Scale - Recommend adjust to 5°C - 40 °C

Press ;

- > Arrow down
- > **Temp.Scale**
- > Tick [Set the min & max temperature]
- > 5 °C [Min. Temperature Scale]
- > Tick
- > 40 °C [Max. Temperature Scale]
- > Tick

- > 5 °C [Min. Temperature Limit]
- > Tick
- > 40 °C [Max. Temperature Limit]
- > Tick



Temp Scale - Adjust to 5°C

This option allows you to set the minimum and maximum temperature to which the thermostat can be set.

- > Arrow left to exit menu

VIEW ENERGY COSTS

[Not trackable when thermostat is not ON or with hydronic or electric systems with contactors installed]

- Press;
- > Menu
 - > User Settings
 - > Energy Tariff
 - > Price per kWh
 - > Enter your price.
 - > Tick to confirm

You can now view your energy usage via 'Energy Use'

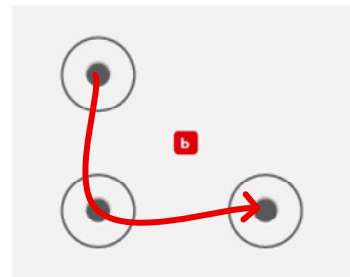
- > Menu
- > Energy Use
- > Scroll up and down to view results

CHILD LOCK

The child lock prevents children and others from tampering with the thermostat and changing any of its settings.

ACTIVATING CHILD LOCK

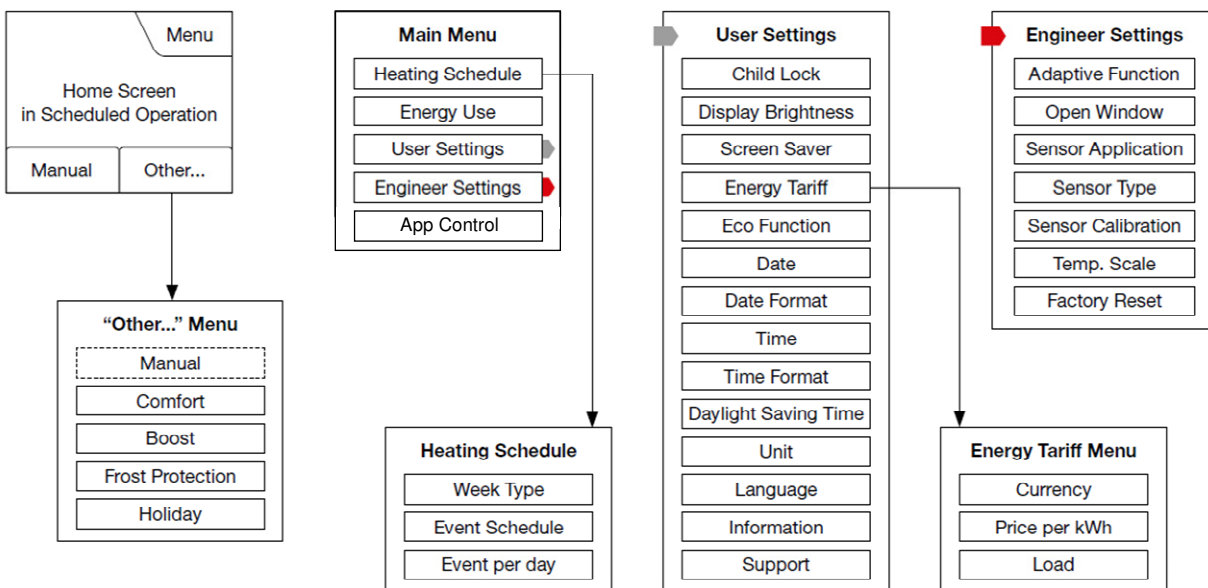
- Press;
- > Menu
 - > User Settings
 - > Child Lock
 - > Toggle ON
 - > Tick to Confirm
 - > Arrow back to Home Screen



OPEN WHEN CHILD LOCK IS ON

- > Draw an 'L' on the screen in a single stroke without lifting your finger.

MENU STRUCTURE



TROUBLE SHOOTING

If an error message occurs, the thermostat will display one of the following errors;

- E0 : Internal failure. The thermostat is defective. The thermostat must be replaced.
- E1 : Internal sensor defective or short-circuited. The thermostat must be replaced.
- E2 : External wired floor sensor disconnected, defective or short-circuited. Requires sensor reconnection or replacement.
- E5 : Internal overheating. Installation requires inspection.

Programming your floor heating schedule is a completely individual decision based on your lifestyle and personal preferences. Our recommended times and temperatures are a guide only based on popular settings.

THERMOSTAT HEATING SCHEDULE GUIDES

IN-SCREED AREAS [GAS OR HEAT PUMP] - SAME TIME EVERY DAY ANY TIME OF DAY WITH TWO HEAT CYCLES [GUIDE ONLY]

Press;

> Menu button > Heating Schedule

> **Week Type**

> Work days/home days > Arrow right

> Tick all work days [every day is dark blue] > Arrow right

> Tick to confirm [no home days are ticked] > Arrow left[back]

> **Events per Day** > Arrow right

> Tick 4 events per day > Tick to confirm

> **Event Schedule**

> Work Day : Wake Up [21°C @ 6.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Leave Home [10°C @ 8.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Come Home [21°C @ 15.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Go To Sleep [10°C @ 20.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Arrow left to exit menu

IN-SCREED AREAS [HEAT PUMPS] - SAME TIME EVERY DAY WITH ONE HEAT CYCLE [I.E HIGH SOLAR CAPTURE] [GUIDE ONLY]

Press;

> Menu button > Heating Schedule

> **Week Type**

> Work days/home days > Arrow right

> Un-tick all work days [every day is light blue] > Arrow right

> Tick to confirm [every home day is ticked] > Arrow left[back]

> **Events per Day** > Arrow right

> Tick 4 events per day > Tick to confirm

> **Event Schedule**

> Home Day : Wake Up [21°C @ 10.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Home Day : Go To Sleep [5°C @ 15.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Arrow left to exit menu

MANUAL HEATING

The MWD5 will always default to the programmed settings. You can override these settings by turning the thermostat to manual mode. Manual mode will heat to the set temperature then turn ON/OFF, maintaining the temperature indefinitely. To override programmed setting and operate the thermostat in manual mode

Press;

> Manual

> Adjust temperature up and down with arrow keys. [Red numbers indicates heating. Black indicates at temperature]

> To exit manual mode press X.

YOUTUBE TUTORIALS

For more step by step tutorials on setting up your thermostats, please visit our youtube page.

<https://www.youtube.com/user/ComfortHeat>

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IN-SLAB AREAS [GAS OR HEAT PUMP] - SAME TIME EVERY DAY ANY TIME OF DAY WITH TWO HEAT CYCLES [GUIDE ONLY]

Press;

> Menu button > Heating Schedule

> **Week Type**

> Work days/home days > Arrow right

> Tick all work days [every day is dark blue] > Arrow right

> Tick to confirm [no home days are ticked] > Arrow left[back]

> **Events per Day** > Arrow right

> Tick 4 events per day > Tick to confirm

> **Event Schedule**

> Work Day : Wake Up [21°C @ 4.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Leave Home [10°C @ 7.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Come Home [21°C @ 16.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Go To Sleep [10°C @ 20.00]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Arrow left to exit menu

IN-SLAB AREAS [HEAT PUMPS] - SAME TIME EVERY DAY WITH ONE HEAT CYCLE [I.E HIGH SOLAR CAPTURE] [GUIDE ONLY]

Press;

> Menu button > Heating Schedule

> **Week Type**

> Work days/home days > Arrow right

> Un-tick all work days [every day is light blue] > Arrow right

> Tick to confirm [every home day is ticked] > Arrow left[back]

> **Events per Day** > Arrow right

> Tick 4 events per day > Tick to confirm

> **Event Schedule**

> Home Day : Wake Up [21°C @ 10.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Home Day : Go To Sleep [5°C @ 15.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Arrow left to exit menu

IN-SLAB AREAS [HEAT PUMPS] - SAME TIME EVERY DAY WITH TWO HEAT CYCLES [OFF PEAK AND SHOULDER TIMES ONLY]

** Off-peak times are based on Energy Australia NSW 'Time of Use' rates 2020. Please check with your energy provider for your local times.

Press;

> Menu button

> Heating Schedule

> **Week Type**

> Work days/home days > Arrow right

> Tick all work days [every day is dark blue] > Arrow right

> Tick to confirm [no home days are ticked] > Arrow left[back]

> **Events per Day** > Arrow right

> Tick 4 events per day > Tick to confirm

> **Event Schedule**

> Work Day : Wake Up [21°C @ 7.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Leave Home [5°C @ 14.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Come Home [21°C @ 20.00**]

> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Work Day : Go To Sleep [5°C @ 22.00**]


> Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm > Arrow right

> Arrow left to exit menu

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RADIATOR SYSTEMS - PROGRAM YOUR HEATING SCHEDULE FOR THE SAME TIME EVERY DAY WITH AIR SENSING CONTROL

Press ;

- > Menu button 
- > Arrow down
- > Engineer Settings
- > Sensor Application
- > Tick to confirm sensor application
- > Tick **Room**
- > Tick to confirm
- > Return to home screen

Press ;

- > Menu button
- > Heating Schedule
- > **Week Type**
- > Work days/home days > Arrow right
- > Tick all work days [every day is dark blue] > Arrow right
- > Tick to confirm [no home days are ticked] > Arrow left[back]

> **Events per Day**

- > Arrow right
- > Tick 4 events per day
- > Tick to confirm

> **Event Schedule**

- > Work Day : Wake Up [22°C @ 5.00]
- > Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm
- > Arrow right

- > Work Day : Leave Home [12°C @ 8.00]
- > Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm
- > Arrow right

- > Work Day : Come Home [22°C @ 17.00]
- > Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm
- > Arrow right

- > Work Day : Go To Sleep [12°C @ 21.00]
- > Touch to adjust **temperature** > Tick > Adjust **time** > Tick to confirm
- > Arrow right

MANUAL HEATING

The MWD5 will always default to the programmed settings. You can override these settings by turning the thermostat to manual mode. Manual mode will heat to the set temperature then turn ON/OFF, maintaining the temperature indefinitely. To override programmed setting and operate the thermostat in manual mode


Press;

- > Manual
- > Adjust temperature up and down with arrow keys. [Red numbers indicates heating. Black indicates at temperature]
- > To exit manual mode press X.

SETTING UP WIFI CONTROL

The MWD5 thermostat allows you to remotely control your floor heating from any location, providing total comfort control. The MWD5 must be ON, requires a strong local WiFi connection and internet access, for remote control.

CONNECTING MWD5 TO WIFI

1. Press Menu  & arrow down to **App Control**
2. Press WiFi Connection and arrow right
3. Press Manual
[the thermostat will now search your WiFi area to detect available networks. If your WiFi network does not appear, turn your router on/off and repeat this process until your network appears on the list.]
4. Select your WiFi network and arrow right.
5. Enter WiFi password
[Left button flips between upper case, lower case, numbers and symbols. Press up and down arrow buttons to scroll and press highlighted character to select.]
6. Press the Tick to complete
[Thermostat will begin connecting to WiFi network.]

Once connected to network, screen displays 'Status'
WiFi: Connected
Server: Connected
WiFi symbol will highlight on your home page once connected.

7. Arrow back to App Control screen
8. Press Select to App
9. Press QR Code



INSTALLING THE APP

10. Download 'SWATT' App on Apple or Android devices. Go to App Store or Playstore and search 'Swatt OJ'



11. Press Install then Open app

12. Press

13. Tick all Terms and Conditions boxes & Press

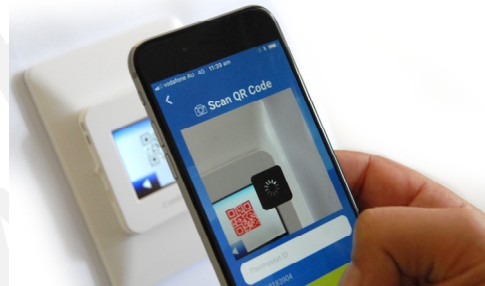
14. Press to Connect Thermostat

15. Scan the QR code on the thermostat

16. Enter a thermostat name i.e Master EnSuite

17. Enter a heating zone name i.e Bathrooms

18. Press



CREATE A LOGIN PROFILE

19. Enter a user name

20. Enter a password and re-enter password

21. Press

22. Press OK if prompted to remember password

23. **On thermostat** - Tick to Accept Connection to App

24. Press on App for final connection

25. Leave Mode? To start adjusting temperature and settings press **Leave** if prompted.

ADD ZONES & THERMOSTATS

SWATT App divides your heated areas into zones and within each zone is one or multiply thermostats. You can programme the same schedule and set the temperature of the whole zone or control each thermostat temperature independently.

26. Press Menu in App

27. Press Manage Zones

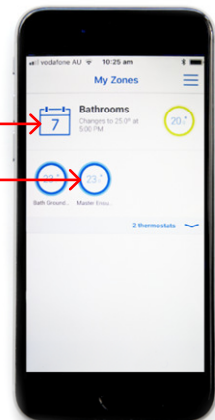
28. Press Add New [Thermostat in new Zone or Thermostat in existing zone]

You will be prompted to scan the QR code of each thermostat and complete some of the above set-up steps. If adding many thermostat we recommend planning your zoning thoughtfully as this can function can be very useful if set up correctly.

SETTING MANUAL TEMPERATURES

29. Press Zone Name [ie Bathrooms] to manually adjust the temperature of a whole zone

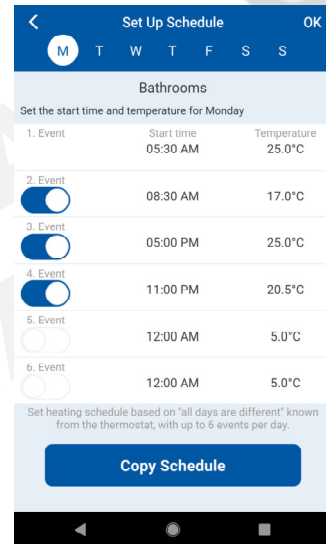
30. Press Thermostat Name [ie Master EnSuite] to manually adjust temperature of a single thermostat



PROGRAMMING SCHEDULER

- > Press Menu
- > Set Up Schedule
- > Select Zone [Can only program zones – not a single thermostat]
- > Press M on top row to select Monday
- > **1.Event** > Start time [5.30AM @ 24-28°C]
- > **2.Event** > Activate toggle > Start time [8.30AM @ 17°C]
- > **3.Event** > Activate toggle > Start time [5.00PM @ 24-28°C]
- > **4.Event** > Activate toggle > Start time [10.00PM @ 17°C]

- > Press Copy Schedule
- > Tick Tues/Wed/Thurs/Fri/Sat/Sun
- > Press OK to confirm days
- > Press OK to confirm Schedule



HEATING ONE AREA ONLY

If you have only one bathroom being heated, we recommend keeping it simple and naming as follows:
 Zone Name : Home
 Thermostat Name : Bathroom

TROUBLE SHOOTING

For a successful remote connection you must have the following;

1. Logged into your SWATT app account on your device.
2. Each thermostat connected to your WiFi network. If no WiFi connection is available, try turning your router off/on. Thermostats may be too far away from the router to join the WiFi network.
3. WiFi network connected to the internet.
 In some cases you may be successfully connected to your WiFi network but your internet is down. Check internet connection with another device.
4. Successful server connection [automatic]
 If your server is not connecting it is either your WiFi, internet or the SWATT server is down.
 Any questions please feel free to contact Comfort Heat Australia 02 9979 8600

APP MENU

Set Up Schedule	Allows you to programme a heating schedule for each zone. [Schedules can be created for each zone only – not a singular thermostat]
Holiday	Programme away times for a pause in your heating schedule. [Set the start and end date for inactive heating period]
Frost Protection	Keep your floor above freezing point.
Manage Zones	Allows you to create, move, delete and rename zones and thermostats. [Drag and drop thermostats into different zones and tap zones and/or thermostats to rename. Drag and drop zones and/or thermostats into the bin to delete.]
Energy Use	View usage for each thermostat [Using noted in kWh]
Thermostat Information	Details of each Thermostat
My Profile	Log out or Delete profile/change password