Hotwire Thermostat Instructions

Model Number: HWGL1 Dual Device Thermostat
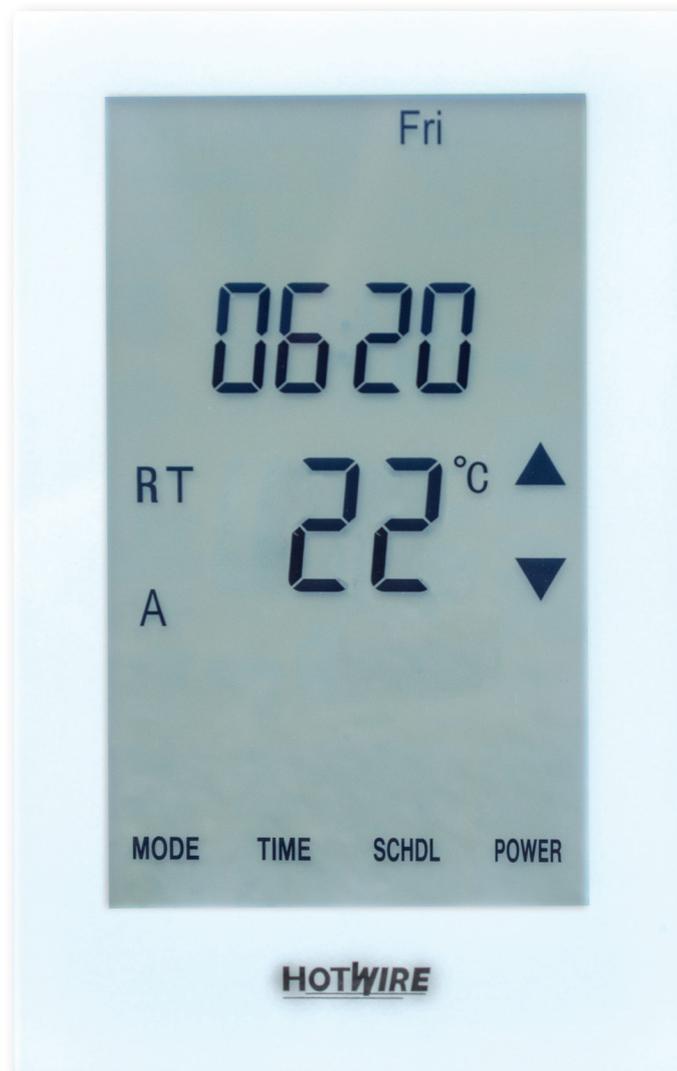
Hotwire Thermostat Instructions

The thermostat is a Dual Control model. You can use it to program both your Hotwire Floor Heating and Hotwire Heated Towel Rail.

This manual outlines how to program the unit. If you have any difficulties we have a step by step video on our website at,

www.hotwireheating.com.au (Australia)

www.theheatingcompany.co.nz (New Zealand)

LCD symbols

Icon Legend	
🔒	The buttons are locked
🔥	Heating is turned on
❄️	Frost protection activated
🏠¹	Programme number
✍	Manual mode
AUTO	Automatic mode, executes the programmed schedules
Override	Temporary temperature override
Er	The floor sensor is not being read by the thermostat

Alternating Heating Zones

In order to alternate between the devices or heating zones being controlled press and hold "TIME" The LCD will display ZONE 1 or ZONE 2 in the top left corner. Zone 1 will be your under floor heating. Zone 2 will be your heated towel rail.

Setting the clock and day of the week

This thermostat is fitted with a real time clock. It is essential that the clock time and day are set accurately if you require your programmed events to start on time. To set follow the steps below:

(1). Touch the word "Time" and the time will start flashing. Use the up and down arrows to set the time. Pressing down for longer will make the time change quicker.

(2). Press NEXT to move to the Day setting and use the up and down arrows to get to the correct day.

(2). Press DONE to store and exit.

Setting the Programme Schedules

This thermostat has the ability to programme each individual day of the week separately, or programme 7 days of the week at once. You can also programme weekdays (5 days) to one schedule and then weekends (2 days) to a different schedule. See the Menu information for details on how to set this up.(refer to Menu 10) *See page 4 of this manual.*

Programming your Thermostat.

This will help you programme your thermostat to come on and off automatically. If you want to simply turn it on and off when required skip this section. When programming Zone 2 for your Heated Towel Rail it will not be necessary to set the temperature in the below steps. You simply set the time only and then select "On" for options 1 and 3, and "Off" for options 2 and 4.

(1). Press SCHEDULE and the day display will start flashing. Using the arrow to select the day you wish to programme. Then press Next. (If your thermostat is set to 5+2 day programmable mode, the programming will skip to step 3)

(2). To select every day to be the same simply press All Days.

(3). Press NEXT and 🏠¹ is displayed. This is the first programme function of the day.

(4). The time is now flashing. Select the time you want the heating to come on in the morning. Then press next.

(5). The temperature is now flashing. Set the temperature that you want the floor to heat to. Then press next.

(6). The LCD screen will show programme 2(🏠²) and the time will be flashing. This is the time that the thermostat will switch off in the morning.

(7). Use △ and ▽ to adjust the time you wish the heating to switch off in the morning on the selected day or days.

(8). Press NEXT and the temperature will start flashing. This can be used to maintain a minimum temperature. In most cases this is not required and the temperature should be set to 5.

(9). Press NEXT and the 🏠³ icon will display. The time is also flashing. Set the time at which you want the heating to come on in the afternoon or evening. **NOTE:** If you do not wish the heating to come in the afternoon, simply set the "off" time for only a couple of minutes after the "on" time.

(10). Press NEXT and set the temperature required in the afternoon.

(11). Press NEXT and the LCD screen will show programme 🏠⁴ This is the time that the thermostat will switch off in the afternoon / evening. Press NEXT and set the temperature. As per above we recommend 5. Then Press DONE

(*). Hint: During setting programs, press DELETE will clear a programme entry and thermostat will maintain the temperature setpoint of the last executed programme until the beginning of the next programme.

If you use the default programming of 5 week days plus 2 weekend days you will now need to repeat the above steps for the weekend.

Default Programming is as follows.

Programme	Start Time	Setpoint	Explanation
01	WAKE 07:00	22 °C	This is the time the heating will come on in the morning.
02	LEAVE 09:30	16 °C	This is the time the heating will switch off in the morning. It can also be used to set a minimum temperature for the day.
03	RETURN 16:30	22 °C	This is the time the heating will come on in the afternoon.
04	SLEEP 22:30	16 °C	This is the time the heating will switch off in the afternoon / evening. If you do not require the heating in the afternoon / evening, simply set this time to a couple of minutes after the "on" time.

Hotwire Thermostat Instructions

Installation and Wiring

Carefully separate the front half of the thermostat from the back plate by unscrewing the small screw at the bottom of the thermostat. Carefully unplug the ribbon connector which is plugged into the front half of the thermostat. Place the thermostat front half somewhere safe. Terminate the thermostat as shown in the diagrams below.

Screw the thermostat back plate onto the flush box

Re-connect the thermostat ribbon cable and clip the two halves together.

6	5	4	3	2	1
		L1	L2	N	L

Floor Sensor

Brown wire from floor heating element

Brown wire from Heated Towel Rail

Blue wire from both floor heating and towel rail

Power

FEED (230VAC)

LOAD (16A)
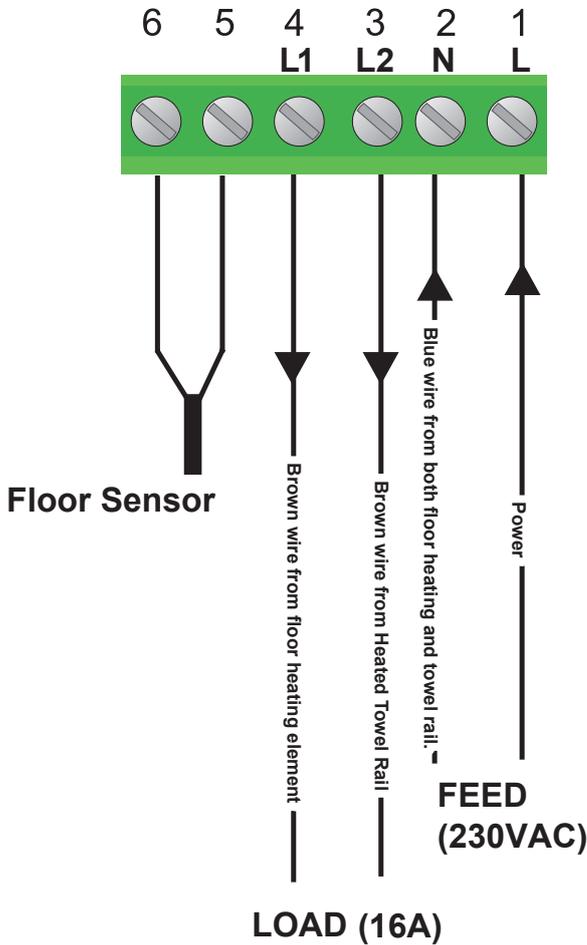
Connect green wires to house earth.

⚠️

This product should be installed by a qualified electrician.

Manual Mode

Press [MODE] to select Auto/Manual mode. In Manual mode(✋), the thermostat maintains a constant set temperature manually set by the user. Simply press the temperature and increase it to the required level.
In Auto mode, the thermostat executes the preprogrammed schedules.

Lock the Keypad

To lock the keypad, press and hold the "Power" button for for 5 seconds, you will see a lock symbol 🔒. To unlock, repeat the steps above and the lock symbol will disappear

Reset to Factory Setting

With thermostat turned off, press and hold OFF for 5 seconds until you can see -- : -- on LCD.

Temporary Temperature Override

Touch the [△] temperature display, and it will start to flash. Use up or down buttons to adjust. Press [DONE] to accept, and you will see "Override" above the temperature display. Thermostat will maintain the new set temperature until the next programmed event (comfort level). To cancel the override setting, press [Schdl]

60mm

82mm

65mm

118mm

Rear View

45mm

74mm
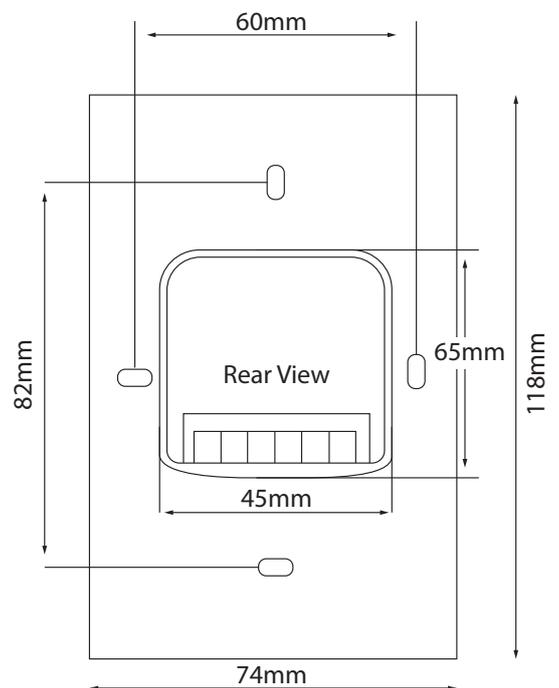
Hotwire Thermostat
Technical Information

Configuration Menu

To enter into the setting menu please follow the steps below:

Step 1. Turn the thermostat off by pressing [POWER]

Step 2. Press [MENU] you will then see menu 01.

Step 3. Use the up and down arrows to adjust the sensor selection which is Menu 01(Air sensing;Air and Floor, or Floor only)

Step 4. Press [NEXT] to move to the next Menu and once you have all the menu options set,

Setp 5. Press [DONE] to accept and store.

Menu #	Feature	Explanation	Adjustment (Press up & down buttons to adjust)
01	Mode/Sensor Selection	This thermostat is a combination model which allows you to choose 3 different modes. A mode = Air Sensing Only(Has built in sensor) AF mode = Air & Floor sensing (Floor probe must be installed) F mode = Floor Sensing(Floor probe must be installed)	A / AF / F
02	Switching differential	The number of degrees difference before switching. The default is 1°C which means the thermostat will switch the heating on 0.5°C below the set temperature and will turn it off 0.5°C above the set temperature.With a 2°C differential the heating will switch on 1°C below the set temperature and will switch off 1°C above the set temperature.	1 Deg C, 2 Deg C....10 Deg C (1 Deg C by default)
03	Air Temp Calibration	This is to recalibrate the air temp if required	-1 Deg C = decrease 1 °C , 1 Deg C = increase 1 Deg C
04	Floor Temp Calibration	This is to recalibrate the floor temperature if required	-1 Deg C = decrease 1 °C , 1 Deg C = increase 1 Deg C
05	Temperature Readout (AF mode only)	This gives you the option to show the Air Temp, Floor Temp or to show both Air & Floor at intervals	A = Show Air Temperature F = Show Floor Temperature A-F = Show Floor and Air Temperature in 5 sec intervals
06	Maximum Floor Temp (AF Mode only)	This is to protect the floor surface	20 Deg C - 40 Deg C (40 Deg C by default)
07	Temperature Format	This allows the temperature to be set to show Deg Celsius or Deg Fahrenheit	Deg C / Deg F
08	Clock Format	You can select the clock to show in either 12 or 24 hour time	24 (default), 12- hour or 24-hour clock format
09	Frost Protection	This is to avoid your room temp going below 5 DegC	On = activated, Off = deactivated
10	5+2 / 7 Day mode	This allows you to programme either 5 days at once, then the 2 days of the weekend separately, or a full 7 days at the same time or 7 days separately.	01 = 5 + 2 Day Programming 02 = 7 Day Programming
11	Auto/Manual mode selection	This allows you to choose Auto / Manual mode	00 = Auto mode 01 = Manual mode
12	Software version	This is for review only	V1.0
13	Minimum temperature limit	This gives you the option to change the minimum set temperature	5 °C~ 20 °C (5 °C by default)
14	Maximum temperature limit	This gives you the option to change the maximum set temperature	This gives you the option to change the maximum set temperature
15	Sensor type selection	This allows you to match your thermostat to different sensor	10 = NTC10K(by default), 100= NTC100K, 3=NTC3K
16	Not at use	Reserved for future use	
17	Reset	This allows you to reset your thermostat to factory default	Press and hold down button until you see RES on screen