

PLUG-IN ROOM TEMPERATURE CONTROLLER HEATERMATE™

Model HY02TP

Thank you for choosing **HEATERMATE**. This electronic temperature controller will provide you with comfortable home environment and will help you to save energy.

QUICK START-UP GUIDE:

Plug HEATERMATE into power point – a display showing current ROOM temperature and SET temperature will come up. By pressing Up or Down buttons select your desired SET temperature. Plug your heater into Heatermate. If child lock is activated press/hold Down button for 3 seconds then release to unlock.

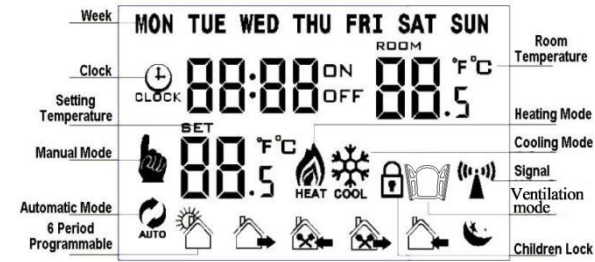
BUTTONS EXPLAINED:

NO.	Symbols	Explanation
1		Power ON/OFF
2		Short press to switch between Manual and Automatic Modes
3		Press to Enter/Confirm
4		Increase (Up) Button
5		Decrease (Down) Button
6	Indicator	Light is ON -- power to heater is ON; light is OFF -- power to heater is OFF.

DISPLAY SYMBLES EXPLAINED:

NO.	symbols	Explanation
1		Automatic control mode (manual control is not showing)
2		Manual control mode (automatic control is not showing)
3		Heating mode; is displayed when power to heater is ON
4		Cooling mode; is displayed when power to air conditioner or fan is ON
5		6 periods programmable icon
8		Room temperature
9		Child lock: activated automatically after 10 minutes of inactivity. Press/hold Down button for 3 seconds then release to unlock. Repeat the same procedure to lock.
10		Ventilation mode – turns heater off for a specified period of time during room ventilation (opening windows) when room temperature drops below a specified temperature.
11		Clock setting icon

DISPLAY OVERVIEW:



1) Operation - Heating

Heatermate will turn your heater ON when ROOM temperature drops 1 degree below SET temperature and will turn your heater OFF when ROOM temperature rises 1 degree above SET temperature. This 2 degrees temperature differential (which comes as default) can be increased or reduced based on your preference – please refer to Section 6. Smaller differential will lead to smaller room temperature fluctuations, but the heater will come ON/OFF more frequently and vice versa.

2) Clock Setting

Press/hold for 3 seconds then release to enter into setting screen. icon is flashing. Press to enter into clock setting mode which displays minute, hour and day of the week. Minute is flashing. Press or to set minutes then press to save and move to hours. Set hours and day of the week in similar manner.

3) Timer Function

The Timer function is designed to enable customer to switch Heatermate ON for one fixed time period every day defined by ON and OFF times. Outside of this time period Heatermate will be in OFF state (nothing will be showing on its display).

To set Timer press/hold for 3 seconds then release to enter into setting screen. Press to select **ON** (**ON** will flash) Press or to set ON time. Press to save then press to select **OFF** and set OFF time. To disable Timer function set both ON and OFF times to 00:00 (comes as default).

Example: Set Timer for heater to come ON at 10pm every night, maintain 21.0 degrees temperature and turn OFF at 7am.

(i) Set ON time to 22:00 and OFF time to 08:00 by following above steps; (ii) Set the SET temperature to 21.0 degrees C; (iii) Turn Heatermate OFF by pressing Power button – the display will go OFF. Heatermate will then stay OFF until 10pm, when it will come back ON (the display will come up). It will then run until 7am, maintaining room temperature of 21.0 degrees. At 7am it will turn itself OFF (the display will go OFF) until 10pm, when it will come back ON, and so on, every day.

NB: The Timer ON/OFF times, once set, will apply to both Manual and Automatic Modes

4) Automatic Mode - Weekly Programming

Automatic Mode (symbol is showing next to SET temperature) allows customer to program up to 6 periods with different SET temperatures for every weekday and up to 2 periods for the weekend. The table below shows the factory pre-set periods and their temperatures. If less than 6 periods per day are required, then the adjacent periods can be merged into one period as illustrated in the Example below. When device is in Automatic Mode, the display will always be ON, showing the current period

icon and its SET temperature.

For the sake of its use simplicity, Heatermate comes with Automatic Mode disabled. To enable it, please refer to Section 6 (Factory Settings): at No. 9 in the Table change 01 to 00 by pressing Down button, then press SET to save. The Automatic Mode is now enabled. Use short press of SET button to switch between Manual and Automatic Modes.

Explanation	Screen
<p>Press/hold "OK" for 3 seconds then release - screen will display (6 periods for every week day) and week days: "MON TUE WED THU FRI". First period will be flashing - press "▲" or "▼" to adjust temperature setting temperature then press "OK" to adjust time setting. Press "OK" to go to the next period and so on for all 6 periods for week days. Now press "OK" to go to weekend programming with 2 periods for "SAT SUN" and set temperatures and times in the same way as for week days. Press "OK" when finished. Please refer to the table below for default values for different periods.</p>	

5) Factory Programmed Periods and Settings

	Period	Icon	Default Time	Default Temperature
Working Day	1		06:00	20°C
	2		08:00	15°C
	3		11:30	15°C
	4		12:30	15°C
	5		17:30	20°C
	6		22:00	15°C
Weekend	1		08:00	20°C
	2		23:00	15°C

Example: Set the heater to come ON at 7pm, maintain room temperature at 20 degrees until 7am, then turn OFF until 1pm, then at 1 pm to come ON and maintain 22 degrees temperature until 2.30pm, then turn OFF and come ON at 7pm (as above) and so on, during weekdays:

- (i) Set up Period 1 temperature to well below the typical room temperature e.g. to 10 degrees and Period 1 start time to 07:00;
- (ii) Move to period 2 and set its temperature also to 10 degrees and leave its start time as default at 08:00 (iii) Repeat the same for period 3 (iv) Move on to period 4 and set its temperature to 22 degrees and its start time to 13.00; (v) Move on to Period 5 and set its temperature to 10 degrees and its start time as 14.30 (vi) Move on to Period 6 and set its temperature to 20 degrees and its start time to 19.00; (vii) Make sure the Timer function is disabled – 00.00 is set for both ON and OFF times (viii) Make sure Heatermate is in Automatic mode - symbol is showing next to SET temperature. If not, press SET button once to switch to Automatic mode. You can now leave your Heatermate plugged in and it will do the job.

6) Factory Settings

This section shows how to change the factory settings according to your requirements, such as: enable Automatic Mode, adjust the temperature sensor reading, change the temperature differential to activate your heater (see Section 1 - Operation), change from Heating to Cooling Mode etc.

Press/hold "▲" for 3 seconds then release to enter into factory settings mode, then press "BET" to choose the required option (A1-A9, AA) as per table below. Press "▲" or "▼" to adjust value. Press "BET" to save and move to the next option. Press Power to exit or wait 12 seconds for Factory Setting programming to time out.

No.	Display	Setting Option	Data Setting Function	Factory Default Setting
1	A1	Room Ventilation Function (Heater is off when window is open)	5-25°C; 5-60min	Disabled (- °C)
2	A2	Temperature Differential to Activate Heater	1-9°C	2°C
3	A3	Temperature Setting - Highest Limit	20-70°C	35°C
4	A4	Temperature Setting - Lowest Limit	1-10°C	5°C
5	A5	Temperature Sensor Calibration	±5°C	Factory Calibration
6	A6	Anti-freezing Function – turns heater ON when temperature is below 5°C	00:Anti-freezing function OFF 01:Anti-freezing function ON	00:Anti-freezing function OFF
7	A7	Resume operation after power disconnection or stay OFF	01:Resume operation 00:Stay OFF	01:Resume operation
8	A8	Operational Mode	00:Cooling Mode	01:Heating Mode
9	A9	Automatic Mode (AM) – weekly programming	00: AM is enabled 01: AM is disabled	01: AM is disabled
10	AA	Return to Factory Settings	88:Do not return to Factory Settings 00:Return to Factory Settings	N/A

Troubleshooting: *Problem:* Can't turn the unit ON - display remains blank. *Solution:* with Heatermate plugged into power do a firm but short press (pressing and holding even a little will not work) on the Power button – the display will come up.

TECHNICAL SPECIFICATIONS:

Operating Voltage: 240V , 50HZ	Temperature Setting Range:1°C - 70°C
Max Load: 10A, 2400W (resistive)	Self-consumption Power:<0.3W
Temperature Measurement Precision:±1°C	Temperature Sensor: NTC

NB: Suitable for use with heaters and air conditioners which can automatically restart after power reconnection

WARRANTY: This product comes with 2 years manufacturer warranty – please contact your place of purchase for warranty replacement. For technical support please contact us via info@heatermate.com.au or call us 1800 229 325.