

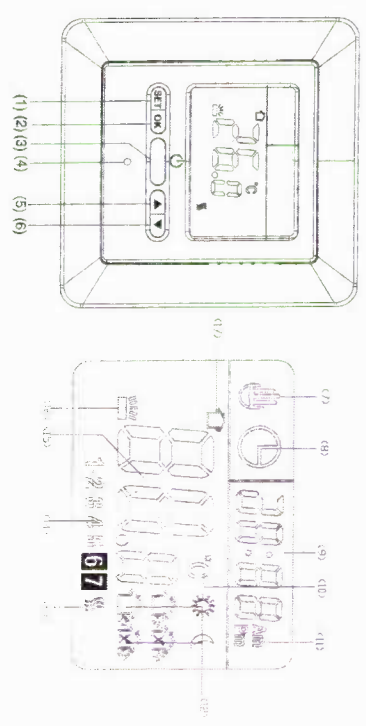
Before refitting the control panel, it may be necessary to alter the switch settings. (see page 1) according to whether the thermostat is used for floor or room sensing alone, or, the most common mode which is both room and floor sensing.

The 2008/2009 model allows you to select floor temperature high adjustment limit 40 C normally, but select 35 C if floor coverings are unusually temperature sensitive. The temperature display is normally left in C for Australian use

The 2010 model provides for room/floor or room+floor the same, but also allows for a 12 or 24 hr clock setting.

MODE "R": Thermostat is used for control by room temperature alone regardless of whether or not the floor sensor is connected
MODE "F": Thermostat is used primarily for control by floor temperature alone.
MODE "RF": Thermostat is used primarily for control by room temperature, with floor temperature limits also capable of controlling the heating. The thermostat is normally supplied pre-set to this position

Keyboard and display



- (1) Set button
- (2) OK button
- (3) ON/OFF switch
- (4) Reset button
- (5) Raise button
- (6) Lower button
- (7) Shows when in temporary override
- (8) Shows when in normal program operation
- (9) Displays time
- (10) Displays whether temperature is in C or F
- (11) Shows whether time is am or pm
- (12) Symbols used to display stages of program schedule
- (13) Displays when heating is ON
- (14) Displays day of the week
- (15) Displays temperature
- (16) Displays when temperature is floor temperature
- (17) Displays when temperature is room temperature

The configuration menu

Entering this menu is done by pressing the raise and lower buttons together for about 3 seconds. The display will show the first item in the menu and pressing SET will move to the next. Your selection is made by using the raise and lower buttons. (A column is provided for you to plan your settings)

To exit, press the OK button. The program will also exit this mode automatically if no button is pressed for 20 seconds, so it is a good idea to examine your choices first. **Items 6, 7, & 8 are ones you may need to change, to comply with our suggested settings.**

Item	Description	Display (suggested setting in brackets)	Press raise or lower to select:	My setting
1	Provides for re-calibration of temperature display. Generally unnecessary as the adjustment is factory calibrated	CL (0)	-4 ... +4	
2	Sets the back lighting mode 1 = back light automatically when any button is touched 2 = back light remains off 3 = back light remains on continuously	bl (1)	1,2, or 3	
3	Pre-sets a high limit for room air temperature adjustment. (Not applicable to Type F : floor thermostat mode)	AH (35)	Up to 35 C	
4	Pre-sets a minimum floor temperature adjustment limit (not applicable for Type R : room thermostat mode)	FL (5)	5 to 20 C	
5	Pre-sets maximum floor temperature adjustment limit (Not applicable for Type R : room thermostat mode)	FH (40)	Up to 40 C	
6	Select fast or slow acting FA = heating turns on when temp is 1 C below setting SA = heating turns on when temp is 3 C below setting	HC (FA)	FA or SA	
7	Programming setting options: 7 = program each day of the week separately 3 = week days grouped together, then Sat & Sun	PS (3)	3 or 7	
8	Daily programming period options: 6 = 6 programmable periods each day 4 = 4 programmable periods each day	C5 (P4)	P4 or P6	
9	Load current setting: HH for 12—16A H for 8—12A L for 0—8 A	LD (HH)	HH, H, L	

Manual operations

- 1) **Set day and time**
Press SET button. The display will show the hour flashing.
Press raise or lower buttons to reach the correct hour
- 2) Press SET again and minutes will flash. Use raise/lower buttons to adjust
- 3) Press SET again and week day will flash. Use raise/lower buttons to adjust
- 4) Press SET again and week day will flash. Use raise/lower buttons to adjust

At this point, the installation is complete. The remaining instructions provide for further operations eg temperature settings for periods of the day, should these be needed to suit the occupancy of the heated space.

Temporary temperature hold

With thermostat in normal operating mode, use raise /lower buttons to select temperature. The temperature display will flash. Press OK to hold.
While held in this condition, a "hand" symbol will display. The normal programmed setting will automatically resume when the time of the next programmed period is reached.

Checking current floor temperature

Hold the raise button for 5 seconds. Floor temperature will be displayed and the symbol to indicate this. Press OK to revert back to normal operation. This will occur automatically after about 20 seconds.

Reset operation

If the display is abnormal, press the reset gently by opening up a paper clip and using this. All factory defaults will be restored. It will then be necessary to restore the same configuration settings as pre-set by Heatec if these are preferred.

Planning your temperature/time program.

The thermostat is manufactured with a pre-set default program of 7 individual daily programs using 6 temperature changes per day. (It will revert to this if the above reset process is carried out).

To enter the time/temperature program, press SET for 5 seconds and the week day(s) 1-5 will flash as a group if the suggested option of programming all week days together in the configuration menu has been selected. Press the raise or lower button to change this to Saturday (6) or Sunday (7) if that is all you wish to alter. Then press SET to commence the temperature/time settings.

A time will then flash at the top of the screen. Raise or lower if necessary, then press SET
The temperature (as selected to commence from this time) will then flash. Raise or lower if necessary, then press SET
Continue the same temperature and time settings for the remainder of the day 4 or 6 periods (according to the configuration choices set).

The next day will then start flashing. Repeat the day's time/temperature setting procedure until finished.
When complete, press OK to revert back to normal programmed operation. If you do not press any keys for about 15 seconds it will revert back to normal automatically.

In deciding the commencement time for each period, make allowance for both the warm up and cool down time. This will depend on installation type. The suggested program below may be suitable for providing a warm up time for a bathroom where the room is first occupied at 7.00 am and not normally used after 9.00 am. Then often used between the hours of 7.00 pm and 11.00 pm

If the electricity supply is interrupted, all configuration and program settings are maintained, but it

	Period 1		Period 2		Period 3		Period 4	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp
Suggested settings	5.00 am	22 C	8.00 am	18 C	6.00 pm	22 C	10.00 pm	18 C
Your settings ?								

will be necessary to reset the time and day.

Error codes

- E1 Floor sensor short circuit (Mode RFor RF). The output will shut down.
- E2 Floor sensor open circuited or damaged (Mode F or RF). The output will shut down.
- E3 The floor temperature has reached the high limit setting in your configuration menu. (Mode F or RF). The output will shut down until it drops below the limit. Note: this is a normal function and does not suggest a fault.
- E4 The floor temperature is below the low limit set in your configuration menu. Heating will be turned on until this is reached.
- E5 The room sensor is faulty (condensation a possible cause). All output will shut down.
- E6 The room sensor is faulty. Replacement required. All output will shut down.

Heatec SAS818FHL-7 Thermostat for floor heating

Specification

- Power source: 230VAC
- Inbuilt relay capacity: 16A
- Floor sensor: 100K NTC Thermistor

Installation

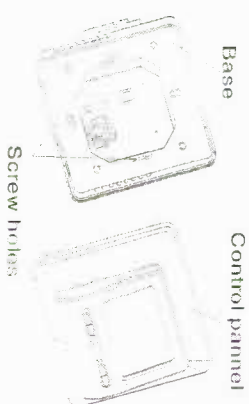
Installation is only to be carried out by a licensed electrical worker.
When installed in bathrooms, it must not be located in any restricted zone lower than zone 3 (see AS/NZS3000: 2007).

Unless the thermostat is being used for floor sensing only, it must be mounted where it is exposed to the heated space, usually at switch height and in a location that avoids direct sunlight or influence from any other heat source. If used for floor sensing only, it may be located any distance from the heated floor and the floor sensor wiring extended as necessary.

The thermostat will mount over a standard 70mm x 70mm European square mounting box, or by using a regular Australian horizontal or vertical bracket and cutting out a square hole at one end of the bracket to pick up one mounting hole and using a plaster anchor for the another.

Any bulk or blanket thermal insulation must be kept clear of the cavity area immediately behind the thermostat.

The control panel is retained against the base by two catches on the top and bottom. Rather than prizing it off with a screwdriver (which may cause damage) it is better to support the base while applying downward force on the top edge of the control panel to release the top catches, then withdraw it.



The wiring connections are clearly identified on the base. It will be necessary to wind out the small terminal clamping screws before inserting the wires. The thermistor connections are not polarity sensitive

The configuration switch

2008/2009 model

2010 model change

