

Advanced Programming Notes for the HT3 Thermostat

Heatwell has done most of the programming for you. The HT3 should be pre-programmed with:

- The time
- The day
- Set on the 24hr clock
- Manual mode set at 26 degrees
- Program mode set on the 7--day option
- 7-day option to:
 - First period starts at 5am and heat up to 26 degrees
 - Finish at 9am and have an ambient temperature set at 18 degrees*
 - Second period starts again at 5pm, and heat up to 26 degrees
 - Finish for the last time at 9.30pm and have an ambient temperature set at 18 degrees*

**Please note that the thermostat will continue to operate during the day to maintain the set ambient temperature. We recommend 18 degrees. Refer to temperature notes.*

Changing the pre-programmed settings

Changing the pre-programmed settings is relatively simple. It is important to review parameter values BEFORE you start programming.

HOWEVER, do not change any parameter values unless necessary.

Parameter Values

To access the parameter values the thermostat must be off.

Press the M button 

The screen will turn on and have 01 at the top of the screen. 01 is the first parameter setting.

You must press the M button again to access the next parameter setting. 

Adjustments to a parameter setting are done by using the up or down buttons  

To save an adjustment to the parameter setting you must press the tick button 

You must keep pressing the M button to move to the desired parameter setting. The parameter setting number is displayed at the top of the screen. 

Parameter 01 – Sensor Selection

A = Air Sensor

AF = Air + Floor Sensor

F = Floor probe Sensor

Most modern installs will have a floor probe installed with the floor heating cabling.

A floor probe cannot be retrofitted.

Unfortunately, floor probes fail often. If an error code happens on HT3 thermostat is usually because the floor probe has failed or the floor probe settings are incorrect. 

If this problem occurs then change to the A setting.

We do not recommend the AF setting unless there is another source of heating in the room

To save a change you must press the tick

Parameter 03 – Floor Temperature Calibration

Should never be changed

Should be set on 0

Only adjust up or down if you have proof that the sensor temperature reading is different from the actual temperature

Parameter 04 – Auto Exit timer

Should never be changed

Set at 30 seconds

Allows the thermostat to go back to its main menu settings

Parameter 04 – Backlight Exit Timer

Should never be changed

Set at 30 seconds

Allows the thermostat to turn the backlight off

Parameter 06 – Clock Format

Preset on a 24 hour clock

Press either up or down to change to a 12 hour (am and pm) mode  

To save a change you must press the tick 

Parameter 07 – Frost Protection

Should never be changed

Set at 3 degrees

Not likely to be needed in NZ conditions

Parameter 08 – Program Type

The thermostat can be pre-programmed to turn on and off at specified times and at specified temperatures

The 3 options are:

01 – 5 + 2 day: Used when you want different timing between week days and weekend

02 – 1 day: Used when you only want the floor heating operating a single day

03 – 7 day: Used when you want the same setting for every day of the week

Press the up or down key to adjust

Preset on 03 (7 days)

The times and temperatures have also been preset

Each option has the ability to have 2 time periods a day where the floor heating is turned on and off

To save a change you must press the tick 

Parameter 09 – Floor Sensor Type

If the thermostat has already been installed this parameter should not be changed, the only reason to do so is if your changing an existing thermostat to a HT3.

Warning! Thermostats should only be replaced by an experienced electrician.

Many brands of thermostat on the market will have different floor probes with different Ohm ratings. The HT3 thermostat has been designed to be a replacement unit for almost anything on the market.

Parameter 09 is used to match up the Kohm to the floor probe

The Kohm settings range from 3 up to 100

Preset on 10Kohm

Press the up or down key to adjust  

To save a change you must press the tick 

If you do not know the Kohm of an existing floor probe and cannot find out online, you will need to use trial and error 

An error will show when the thermostat is turned on if there is a probe mismatch or a faulty probe.

If no Kohm settings work, you will need to set the sensor selection (Parameter 1) to A (air sensing)

Back System Parameters

Should NEVER be accessed unless you are a floor heating expert

To access hold your finger down on the M for 5 seconds while the unit is off 

These parameter settings are from 10 – 13

Parameter 10 – Temperature Differential

Sets the start and end points for degrees while the thermostat is operating. For example, if the temperature is set at 26 and the temperature differential at 1 degree. The floor will heat up to 27 degrees, turn off, then reengage at 25 degrees.

Preset on 1 degree

Must be a positive number and cannot be set to 0

We don't recommend anything higher than 2 degrees.

Remember the temperature swing will be double the setting.

Press the up or down key to adjust  

To save a change you must press the tick 

Parameter 12 – Minimum Temperature

Minimum temperature the thermostat can be set at

Preset on 5 degrees

We do not recommend going lower

Press the up or down key to adjust  

To save a change you must press the tick 

Parameter 13 – Maximum Temperature

Maximum temperature the thermostat can be set at

Preset on 40 degrees

Under no circumstances should you go higher

The lowest temperature you should set the maximum at is 30 degrees

Press the up or down key to adjust  

To save a change you must press the tick 

Setting the Time and Day

Remember: to adjust the clock from 24 hour to 12 hour you will need to go to the Parameter Settings

Turn the unit on 

Press the tick 

The time will flash

Press the up or down key to adjust  

Press the tick to save 

The day will now be flashing

Press the up or down key to adjust  

Press the check to save 

Manual Mode

Turn the unit on 

Press the M until you see a hand (will be above the temperature) 

To set the temperature press the up or down button  

You do not need to press the tick button (that will put you into the set time menu) 

Temporary Override of a Programmed mode with a Manual mode

Only to be used when you want the heating on and want the programmed mode to reengage later

The programmed mode must be on. Programmed mode is on if you see the clock face above the temperature 

Press the up or down key  

Adjust the temperature to your desired temperature

Press the tick button 

The hand signal will now be flashing 

To cancel the temporary override, press the tick button 

The temporary override will automatically be cancelled when the next programmed stage

Programmed Mode

Remember: there are 3 different possible programmed modes. 5+2 day mode, 7 day mode and single day mode. The thermostat is preset on 7 day mode. To adjust you will need to go to the Parameter Settings

Turn the unit on 

Press the M button (if needed) 

You will see a clock symbol above the temperature 

The programmed settings will now be active.

Programming the operating schedule

7 day Mode / 5 + 2 day Mode / Single Day Mode

You must select your preference for mode in the Parameter Settings

Please Note: There are 2 possible time zones per day. The unit will be preset for a morning period and an evening period

First Period Setting

Turn on the unit

Press the P button 

A house with a 1 inside will be displayed. 

The time will be flashing. This is your start time, and should be at least one hour before you require the heating

Press the up or down key to adjust the time  

Press P 

The temperature will now be flashing

Set the temperature to your desired operating setting

Press the up or down key to adjust the temperature  

Press P 

A house with a 2 inside will be displayed. 

The time will be flashing. This is your finish time

Press the up or down key to adjust the time  

Press P 

The temperature will now be flashing

Set the temperature to your desired ambient temperature. The ambient temperature is what will be maintained until the next programmed schedule. DO NOT set this too low.

Press the up or down key to adjust the temperature  

Press P 

Second Period Setting

A house with a 3 inside will be displayed. 

The time will be flashing. This is your start time, and should be at least one hour before you require the heating

Press the up or down key to adjust the time  

Press P 

The temperature will now be flashing

Set the temperature to your desired operating setting

Press the up or down key to adjust the temperature  

Press P 

If you do not want heating during the second period please set the temperature to your desired ambient temperature

A house with a 4 inside will be displayed.

The time will be flashing. This is your finish time

Press the up or down key to adjust the time  

Press P 

The temperature will now be flashing

Set the temperature to your desired ambient temperature. The ambient temperature is what will be maintained until the next programmed schedule. DO NOT set this too low.

Press the up or down key to adjust the temperature  

Press the tick button to save 

In the 5 + 2 day mode you will need to repeat the process for the Sat / Sun option

To lock the keypad, press and hold the power button for 5 seconds. 

A key will appear when its been locked. 

To unlock, hold the power button for 5 seconds and they key will disappear. 