

# Operating your heating system with the Prefect PRE570I Programmable Thermostat



Your central heating system has been designed to provide a comfortable and flexible living environment, enabling you to have control over the operation of your heating at your fingertips.

Just like a wet radiator system with a boiler, your electric heating is fitted with a programmable thermostat and time clock situated in a convenient location allowing you to select temperatures and times of operation centrally.

Your "on" and "off" times can be customized to your own living pattern and the controller monitors room temperatures, adjusting the heat output to maintain your preferred conditions automatically.

The slim style heaters fitted in each room, allow fine control of the local environment by the use of their own on-board thermostat. This thermostat allows you to adjust room temperatures to compensate for "incidental heat gains" - such as a south facing room when it becomes heated by the morning sun.

An isolator switch has been fitted adjacent to each heater should you wish to disconnect the heater from the system.

## A 'typical' layout

Central Programmer



A 'typical' layout continued...

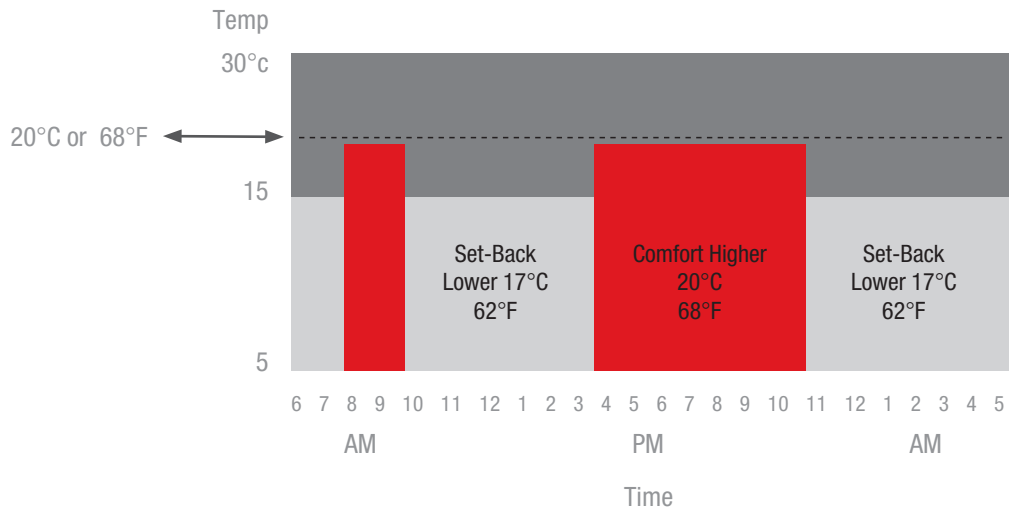
The programmer has been factory-set to provide a "typical" heating pattern from Monday to Friday, with a separate programme for weekends.

These factory settings are fully adjustable, so if you should require a different programme you can customize the profile to suit your own needs.

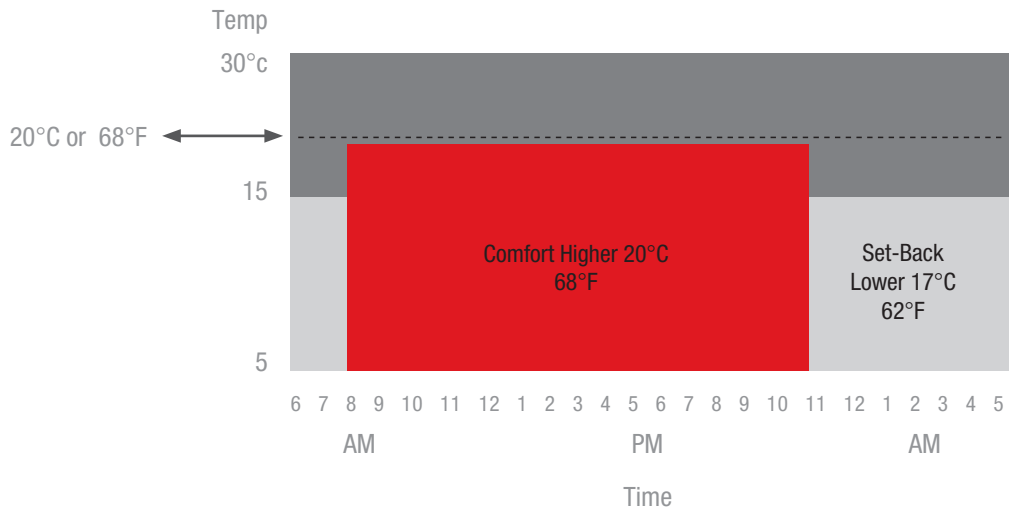
The graphs below show the pre-programmed weekday and weekend patterns. As you can see the central control "sets back" the temperature overnight, bringing on the heating only when needed in the morning and evening.

Detailed instructions on how to enable this feature and all other settings can be found on the following Prefect PRE5701 step-by-step instruction pages.

Monday - Friday



Weekend



## User Instructions for Prefect PRE5701 7Day Programmable Thermostat

The PRE5701 thermostat has 7 pre-set programs to suit most family life styles. Customised programs can be created to fit your own living style with just a few programming steps. This manual provides an easy step-by-step guide in the use of the thermostat and its programming.

2 AA batteries (which are not supplied) power the PRE5701. We recommend high quality alkaline batteries such as the Duracell MN1500, these should provide up to 24 months of trouble-free service.

To fit the batteries, pull the front sliding door to the left and remove it from the main body of the thermostat. The battery compartment is on the left hand side of the thermostat, make sure the batteries are fitted the correct way round (see diagram on the base of the battery compartment).



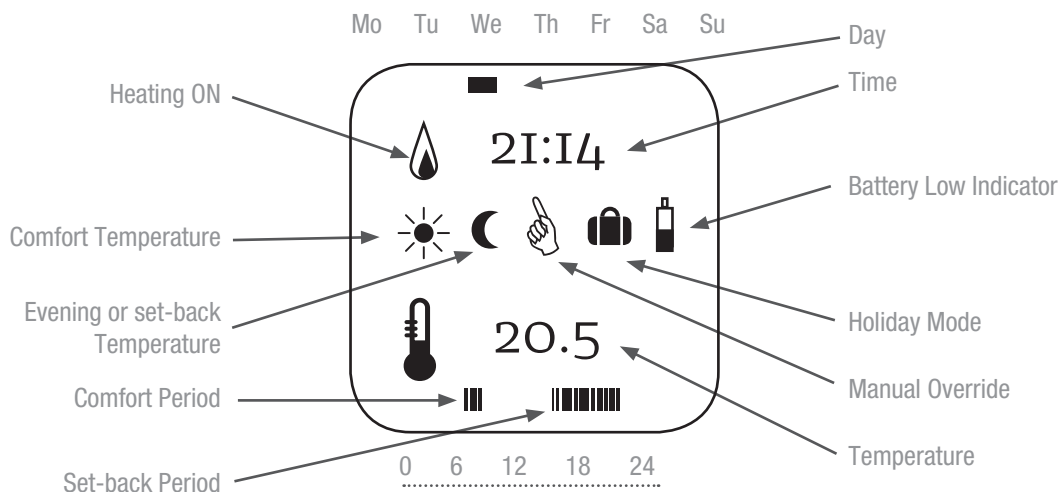
As soon as the batteries have been fitted the unit will be ready to have the correct time of day set, this is indicated by the hour digit flashing on the display. Press the + or - key to select the correct hour, now press **↵** to confirm the command. Repeat the process for the minute settings. After you have confirmed the minute settings, the day of the week bar at the top of the screen will be flashing, again using the + & - buttons select and press the **↵** to confirm.

After you have confirmed the time & day, the display will return to showing the correct time and the current measured temperature.

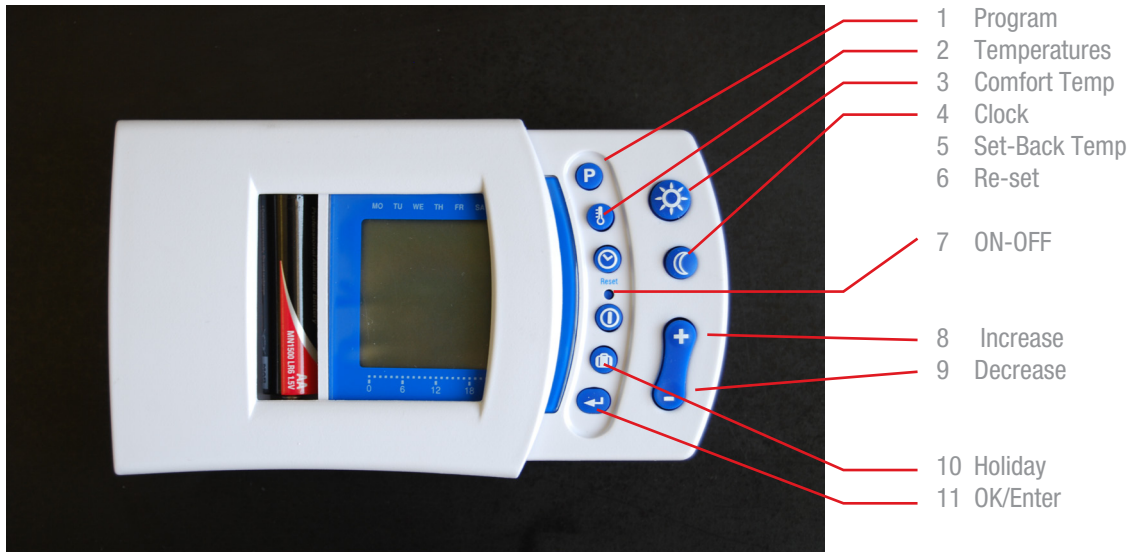
**Remember the temperature indicated on the screen represents the actual temperature in the room as measured by the thermostat at the time and not any of the set temperatures.**

Your thermostat is now set, ready for you to select a program. The next section of this instruction sheet is designed to familiarise you with the function buttons to help you achieve this.

### Display Layout



Display Layout Continued...



Description of each key function

- 1 Program** = To enter program Mode
- 2 Temp** = To view *comfort* temperatures
- 3 Comfort** = To Override into *comfort*
- 4 Clock** = To enter set Time
- 5 Set-Back** = To view set-back temperatures
- 6 Reset** = Resets all functions back to factory settings
- 7 ON OFF** = Resets all functions back to factory settings
- 8 Increase** = Temporary temperature override mode or increase Value adjustment
- 9 Decrease** = Temporary temperature override mode or decrease Value adjustment
- 10 Holiday** = To enter holiday mode
- 11 OK/Enter** = To confirm settings

The PRE5701 has already been factory set to a standard domestic program. So, if this suits your requirements you do not have to program the unit further.

The pre-set program provides the following times and temperatures:

**Monday to Friday**

Heaters will come on to maintain a “comfort” - or typical domestic room temperature - of 20°C or 68°F from 6am to 8am and then from 4.00pm until 11.00pm. For the rest of the time, PRE5701 will hold the temperature at a lower 17°C or 62°F or “set-back” temperature. In “set-back” mode the unit will not switch the heating system totally OFF, the heaters simply come ON and OFF to maintain the lower temperature to keep the building fabric fresh and free of damp.

**Saturday & Sunday**

Heaters will come on to maintain a “comfort” or typical domestic room temperature of 20°C or 68°F from 7.00am to 11.00pm. For the rest of the time PRE5701 will hold the temperature at a lower 17°C or 62°F or “set-back” temperature.

**To View Programs**

PRE5701 is a weekly programmable thermostat, there are 7 days with 24-hour programs, and each hour can be set to “comfort” or “set-back” temperatures depending on your personal requirements.



## Pre-set Program summarised

Day:	Comfort Time – Temperature 20°C:	Set-Back Time – Temperature 17°C:
Monday	6.00am to 8.00am 4.00pm to 11.00pm	All Other Times
Tuesday	6.00am to 8.00am 4.00pm to 11.00pm	All Other Times
Wednesday	6.00am to 8.00am 4.00pm to 11.00pm	All Other Times
Thursday	6.00am to 8.00am 4.00pm to 11.00pm	All Other Times
Friday	6.00am to 8.00am 4.00pm to 11.00pm	All Other Times
Saturday	6.00am to 11.00pm	All Other Times
Sunday	6.00am to 11.00pm	All Other Times

### Viewing the Pre-set Program

Press the “P” Key - the Monday preset program will appear on the screen and the display bar will be flashing at “0”. Press the + & - keys to move along the time bar to show the temperature and time setting for each hour; ie. The Monday program will show the comfort temperature starting at 6.00AM and finishing at 8.00AM, set-back starting at 8.01AM and finishing at 3.59PM, comfort starting at 4.00PM and finishing at 11.00PM Set-back starting at 11.01PM and finishing at 5.59AM.

Press the ← key, the next day pre-set program is displayed. Again, press + or – key. This will show the temperature setting at each hour. Repeat above steps and each pre-set daily program will display until Sunday. Once Sunday program has been reviewed, press ← key. The display will return into running mode.

### To change preset programs:

The preset program may not be perfect for all families, but the program can be adjusted to suit your individual living style.

The following instructions allow you to change the preset program. Press P Key to enter into program viewing mode. Press the ← (enter) key to select the day of the program that you want to change. Now press + or – key to select the hour you wish to change.

The flashing setting bar can be moved up and down the time bar scale using the + & - buttons. Remember the solid bars on the bar timescale represent the comfort temperature and where NO bars are present, the set-back temperature will be maintained.

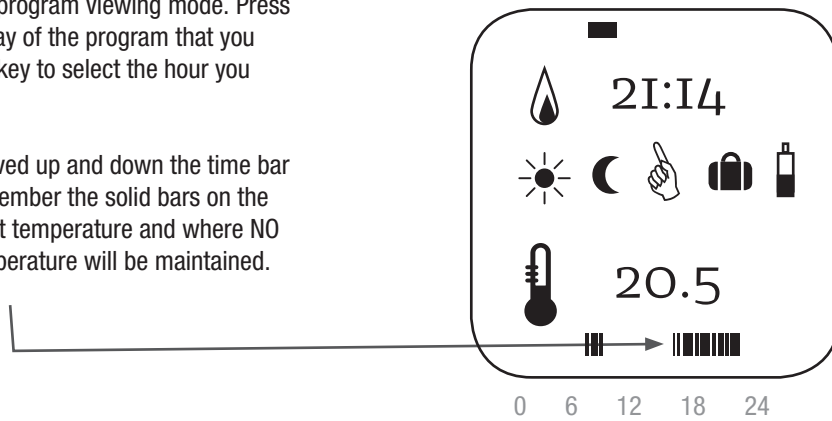
To add extra time at comfort temperature, simply move the flashing setting bar to the hour in time that you wish to change and push the ☀ button this will add one hour of comfort temperature to the timed program, if another hour is required, move the flashing setting bar then press again.

This same process can be used on other days of the week, when you have finished the time and day programming, use the ← key to return to the main program.

To change the programmed temperature, simply select the 🌡 key. The display will show the comfort or set back temperature, now by using the + & - increase or decrease the set point. If you wish to change the second temperature push the corresponding ☾ or ☀ buttons and repeat.

### Important:

Do not set the beginning of the program or the end of the program at 0:00 hour. The microprocessor has selected this time for its' reference use. Therefore you must set the “begin” or “end” time at 23:00 or 01:00.



Pre-set Program summarised continued...

**How to turn the temperature up or down for short periods without affecting the main program:**

This function allows you to over-ride the pre-set temperature setting for a limited period. The feature can be set to over-ride for one hour or up to 48 hours.


Whilst the display is in its' normal run position select the + or – key and enter the manual over-ride temperature.

Press ← key to confirm temperature setting. H1 will be displayed and flashing. Press + or – key to select hours for overriding time - the maximum hours are 48. Press the ← key to confirm setting.


**Note:** The first hour of override (1 H) only runs for a maximum of 45 minutes. However, from second hour onward it will run for a full hour timing. eg: If you select 2 hours override the maximum time of override will be 1 hour 45 minutes.

**To set Holiday temperature:**

This function allows you to select a Holiday temperature for up to 90 days.

Press  key. The display will show the pre-set holiday temperature of 8°C and the number of days setting will be flashing. Press + or – key to select the number of days for your holiday period. The maximum selection is up to 90 days. Once selected, press the ← key to confirm the holiday period.


Now the temperature set will be flashing so that you can select the required holiday set temperature. Once selected, Press the ← key to confirm the setting.


To reset the holiday mode, simply switch the unit off and back on again with the use of the  button.

**To reset the unit:**

Press the reset key to reset the unit into initial clock setting mode. All previous programs will reset to factory-preset programs.

**To turn the unit OFF**

To switch the unit off so that no programs will run, simply press the  button. The display will simply show the current temperature and the “OFF” Sign.

All your settings are stored so you will not lose them. To reactivate the unit simply press  the again.

**Sensor:**

PRE5701 uses a highly sensitive thermostat (NTC thermistor) at the back of the housing located on the lower left hand side of the PCB. If the sensor is touched accidentally you must allow a few minutes for the sensor to come back to normal temperature.

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General specification and data

**Temperature range:** 5°-30° C

**Differential:** +/- 0.5° C from set temperature.

**Temperature accuracy:** +/- 0.5° C

**Batteries:** 2 x AA (1.5VDC) size batteries.

**Rated switching power:** 250v, 5A resistive load and 2A inductive load.

**Min On time in heating mode:** 1 minute

**Min Off time in air conditioning mode:** 3 minutes

