



HORSTMANN

CHANNELPLUS MODEL H121

Two Circuit, Single Time Base, 24 Hour Heating and Hot Water Programmer

USER'S OPERATING INSTRUCTIONS

Please read this leaflet carefully before using your ChannelPlus programmer.

1. INTRODUCTION

The ChannelPlus H121 is an electronic, 24 hour central heating and hot water programmer; extremely reliable and easy to operate.

Properly programmed the ChannelPlus H121 will help you save energy and create a comfortable environment in your home.

The H121 has the following features:

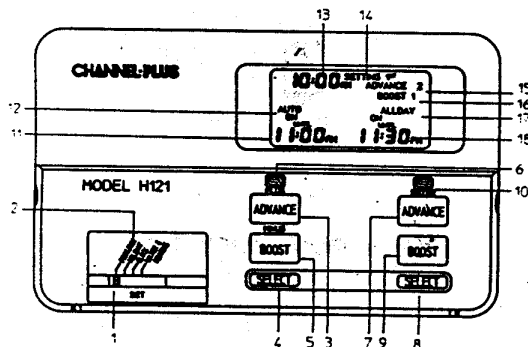
- ***3 ON and 3 OFF periods every 24 hours.
- ***Separate control of hot water and heating.
- ***Override programme options of AUTO, ALLDAY, ON and OFF.
- ***HOLIDAY facility.
- ***An ADVANCE button allowing an instant switch from ON to OFF, or from OFF to ON.
- ***A BOOST facility providing a 1 or 2 hour boost of extra hot water or heating when required.
- ***A large easy to follow display.

Programming and using the ChannelPlus H121 is easy. All you have to do is follow these step by step instructions. You will not need the help of an electrician, and no tools are needed.

2. CONTROLS, INDICATORS and SYMBOLS

Get to know your ChannelPlus programmer.

The diagram below (figure 1) can be used to identify the various controls, indicators and symbols referred to in the following sections of this leaflet.



1. SET slider switch.
2. SET positions.
3. Hot water ADVANCE (PLUS adjust) button.
4. Hot water SELECT button.
5. Hot water BOOST (MINUS adjust) button.
6. Hot water ON indicator light
7. Central Heating ADVANCE (ENTER) button.
8. Central Heating SELECT button.
9. Central Heating BOOST button.
10. Central Heating ON indicator lights.
11. Next hot water switch time.
12. Current hot water programme.
13. Current TIME OF DAY.
14. Switch time SETTING indicator.
15. ADVANCE symbol (HW & CH)
16. BOOST symbol (HW & CH).
17. Current central heating programme
18. Next central heating switch time.

Figure 1 - Front view of H121 programmer with flap down.

You will notice that some buttons have two functions e.g. central heating ADVANCE (ENTER) button. Which function the button performs depends on the position of the SET slider switch in the bottom left hand corner of the programmer.

The function shown in brackets "(...)" applies when the SET switch is NOT in the PROG.RUN (program run) position.

NOTE: The normal working position for the SET switch is PROG.RUN. In order to remind you of this the cover flap will not close when the switch is in any other position.

REMEMBER. The display on your ChannelPlus H121 has been designed to help you. It provides continuously updated information as to switch times, current programmes etc. and also guides you through the setting process.

3. SETTING THE TIME OF DAY

Move the SET slider switch to the position marked CLOCK (see figure 2).

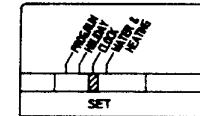


Figure 2

The TIME OF DAY will now flash and the word "SETTING" will appear on the display (see figure 3).



Figure 3

Use the PLUS or MINUS adjust buttons to change the display so that the current TIME OF DAY is showing. Make sure that the AM (morning)/PM (afternoon) symbol is also correct.

NOTE: By pressing and releasing the PLUS or MINUS buttons you advance or retard the time in one minute steps. If you keep the button depressed for a few seconds the display will fast cycle and the time can be changed more rapidly.

Now press the ENTER button. The display will stop flashing and the word "SETTING" will change to "SET" (see figure 4) confirming that you have now finished setting the time of day.

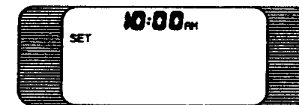


Figure 4

If you wish to make further changes or any corrections simply press the ENTER button again and the above cycle can be repeated.

4. SETTING THE "ON" & "OFF" TIMES FOR HOT WATER AND HEATING

Your programmer already contains a factory pre-set programme of ON/OFF times in its memory. These are based on the most commonly used settings and are shown below.

Hot water & Heating Times

Mon-Fri

1st ON: 6.30 a.m. 1st OFF: 8.30 a.m.
2nd ON: 12.00 p.m. 2nd OFF: 12.00 p.m.
3rd ON: 4.30 p.m. 3rd OFF: 10.30 p.m.

You can program up to three ON/OFF times in a 24 hour period at minimum intervals of 10 minutes. However if you use the factory pre-set programme the 2nd ON and 2nd OFF settings will have no effect because they are set to the same time.

If the above settings do not suit your requirements they can be easily changed as explained below.

Move the SET slider switch to the WATER & HEATING position (see figure 5).

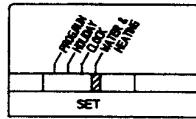


Figure 5

The existing 1st ON and 1st OFF times will be displayed.

The first ON time will flash and the words "SETTING 1st" will appear at the top of the display.

The latter constantly reminds you which set of times are currently being altered. (see figure 6).

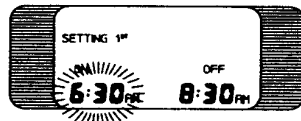


Figure 6

Use the PLUS or MINUS buttons to adjust the first ON time as necessary, then press ENTER.

The first OFF time will now flash and this can be altered in the same way as the ON time.

Press ENTER again. The words "SETTING 2nd" will appear and the second On and OFF times will be displayed.

Follow the same procedure to alter these times, if required, and then again for the 3rd ON and 3rd OFF times.

The 3rd OFF time can be set past Midnight for any time up to 10 minutes before the 1st ON.

If you do not wish to alter a particular switch time simply press the ENTER button and the display will move onto the next one.

If you do not wish to use all three ON/OFF periods they can be cancelled by programming the ON operation at the same time as the OFF operation, e.g. 2nd ON at 12.00 P.M. and 2nd OFF at 12.00 P.M.

Your ChannelPlus programmer will prevent you from accidentally setting ON/OFF times in the wrong order.

For example if the 1st OFF time happens to be set at 10.00 A.M. and you try to set the 1st ON at 11.30 A.M. then the 1st OFF will be "pushed back" to 11.30 A.M. as well.

You may find that the time you are trying to adjust will not move any further and just keeps "bouncing back" by 10 minutes. This indicates that further adjustment of this particular switch time will not be possible without first altering the switch times before or after to accommodate it.

Once the 3rd Off time has been ENTERED the display will go blank except for the word "SET".

This indicates that you have finished programming your hot water and heating times.

If you wish to make further changes or any corrections simply press the ENTER button and the above cycle can be repeated.

5. PROGRAMME SELECTION

The override programmes for hot water and heating are chosen by pressing the appropriate SELECT button (see figure 1), until the required programme indicator is displayed (see figure 7).

NOTE: When using the SELECT buttons to change a programme the SET slider switch must be in the PROG.RUN position.

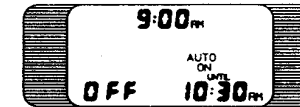


Figure 7

Display showing OFF programme selected for hot water and AUTO programme selected for central heating.

The following programmes are available:

AUTO: When AUTO is selected your ChannelPlus H121 will switch on and off according to the switching times you have chosen i.e. up to 3 ON/OFF periods per day.

ALLDAY: When ALLDAY is selected the programmer will switch the system on at the 1st ON time and will then stay ON until the 3rd OFF time.

ON: When ON is selected the system remains switched on continuously ignoring all time settings.

OFF: When OFF is selected the programmer clock continues to operate but the system remains off continuously, ignoring all time settings.

NOTE: Your installer will have set the ChannelPlus H121 to suit your particular system.

If you have a FULLY PUMPED and controlled system the H121 will allow you to use the above programmes separately for hot water and central heating eg. hotwater OFF and heating ALLDAY.

If you have a GRAVITY HOT WATER or partially controlled system that doesn't permit heating without hot water then you will find that the H121 will "link" the heating programme to the hot water programme. In practice this means that you can programme hot water without heating but not the other way around.

6. USING THE BOOST FACILITY

Your hot water and central heating can be "boosted" for an extra 1 or 2 hours by pressing the appropriate BOOST button (see figure 1).

Press the button once for 1 hour or twice in quick succession for 2 hours.

The word "BOOST" will appear on the right of the display. If hot water has been boosted the figure "1" will also appear, if heating has been boosted then the figure "2" will be shown (see figure 8).

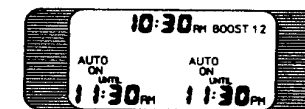


Figure 8

If the system is off when you use the boost then it will switch on for 1 or 2 hours and then automatically switch off again.

If the system is already on when the boost is used then the current on period will be "extended" by 1 or 2 hours.

The BOOST will have no effect when the H121 is in the continuously ON programme.

A boost can be cancelled at any time by a further press of the BOOST button.

7. USING THE ADVANCE

The ADVANCE facility allows you to start ON or OFF periods early without altering the programmed on/off times.

Both the hot water and heating can be "advanced" by pressing the appropriate ADVANCE button (see figure 1).

When the advance is used the word "ADVANCE" will appear on the right hand side of the display. If hot water has been advanced then the number "1" will also be displayed. If the heating has been advanced then number "2" will be shown.

The advance can be cancelled simply by pressing the relevant ADVANCE button again. The word ADVANCE will then disappear from the display.

The ADVANCE will have no effect when the H121 is in either the continuously ON or continuously OFF programme.

REMEMBER if you have a GRAVITY HOT WATER system your water and heating programmes will be linked. This means if central heating is BOOSTED or ADVANCED then hot water will be as well.

8. HOLIDAY PROGRAMME

Your ChannelPlus H121 has a unique HOLIDAY programme facility which allows you to set the programmer OFF for up to 32 days after which it will automatically revert to its normal programme.

Move the SET slider switch to the HOLIDAY position.

The word "SETTING" and the number "00" will be displayed (see figure 9).

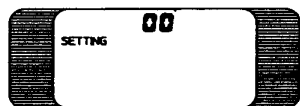


Figure 9

Use the PLUS or MINUS buttons so that the number of NIGHTS you intend to be away is shown on the display.

Return the SET slider switch to the PROG.RUN position.

The HOLIDAY program is now in operation and the system will remain OFF until the 1st ON time of the day you intend to return.

During this time the H121's display will continually show the number of nights remaining and confirm the fact that the system is currently switched off.

Should you come back earlier than expected or just wish to cancel the HOLIDAY programme simply press one of the SELECT buttons.

NOTE: The HOLIDAY programme always starts on the day it is set. It cannot be pre-set in advance. Therefore it should be one of the last things you do before leaving.

9. RE-SETTING YOUR PROGRAMMER

Electronic equipment can in some circumstances be affected by electrical interference.

If your programmer's display or switching programme becomes frozen or scrambled; or if you wish to revert to the factory pre-set times; you can completely RESET your programmer by pressing the central heating ADVANCE and SELECT buttons at the same time.

10. RESERVE BATTERY

Your programmer is fitted with a NON-RECHARGEABLE, LONG-LIFE battery which will maintain programmed time settings for a minimum of TEN MONTHS with the mains supply disconnected.

THIS IS MORE THAN SUFFICIENT TO COVER ALL THE EXPECTED POWER INTERRUPTIONS DURING THE LIFE OF THE UNIT.

NOTE: When running on battery reserve your programmer's display will go blank.

If disconnection lasts longer than THREE DAYS then the current time of day will be lost but switch times will continue to be maintained.

These measures help to prolong the life of the battery.

11. SERVICE AND REPAIR

Your time control is NOT USER SERVICEABLE.

DO NOT TRY TO DISMANTLE THE UNIT.

In the unlikely event of a fault developing please contact a local Heating Engineer or qualified Electrician, but before doing so try RE-SETTING your programmer as described in section 9 of this leaflet.

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