



HORSTMANN

TIMERS AND CONTROLS

CHANNELPLUS MODEL RS 186-5482

Two Channel, 7 Day, Heating and Hot Water Programmer USER'S OPERATING INSTRUCTIONS

Please read this leaflet carefully before using your ChannelPlus programmer.

1. INTRODUCTION

The ChannelPlus H27 is an electronic, 7 day central heating and hot water programmer; extremely reliable and easy to operate.

Properly programmed the ChannelPlus H27 will help you save energy and create a comfortable environment in your home.

The H27 has the following features:

***3 ON and 3 OFF periods every 24 hours with different settings for each day of the week.

***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.

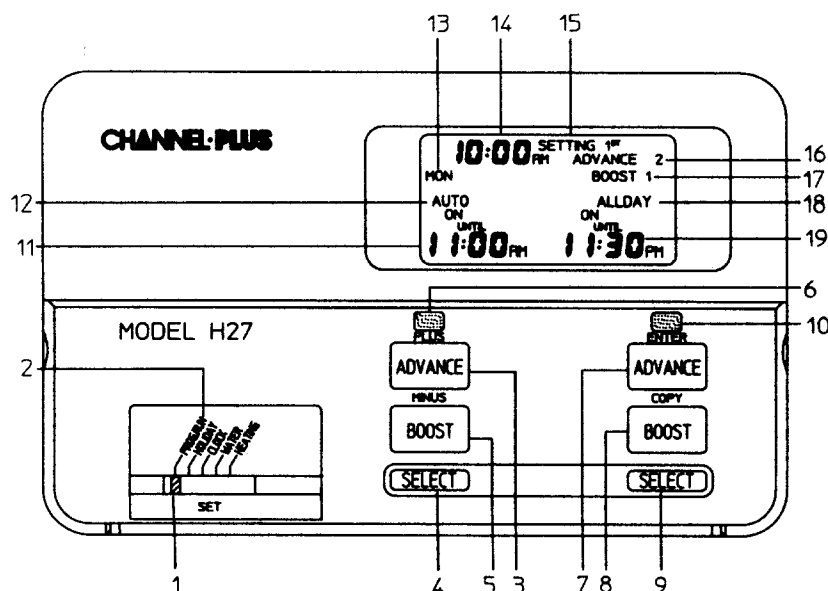
***A large easy to follow display.

Programming and using the ChannelPlus H27 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. BUTTONS, INDICATORS and SYMBOLS.

Get to know your ChannelPlus programmer.

The diagram below (figure 1) can be used to identify the various buttons, 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 BOOST (COPY) button.
9. Central heating SELECT button.
10. Central heating ON indicator light.
11. Next hot water switch time.
12. Current hot water programme.
13. DAY OF WEEK symbol.
14. Current TIME OF DAY.
15. Switch time SETTING indicator.
16. ADVANCE symbol (HW & CH).
17. BOOST symbol (HW & CH).
18. Current central heating programme.
19. Next central heating switch time.

Figure 1 – Front view of H27
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 H27 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 DAY AND TIME OF DAY

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

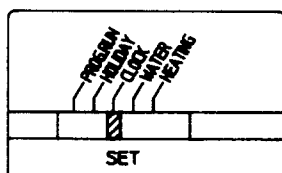


Figure 2

The DAY OF THE WEEK will now flash and the word “SETTING” will appear on the display (see figure 3).

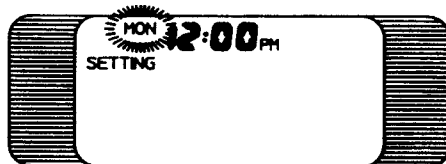


Figure 3

Use the PLUS or MINUS adjust buttons to change the display so that the current DAY OF THE WEEK is flashing; then press the ENTER button.

The TIME OF DAY will now flash (see figure 4).



Figure 4

Now use the PLUS or MINUS buttons to alter the display to the correct TIME OF DAY, making 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 5) confirming that you have now finished setting the day and time of day.

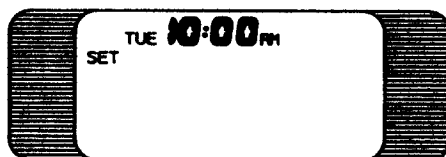


Figure 5

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

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		Sat-Sun	
1st ON: 6.30 a.m.	1st OFF: 8.30 a.m.	1st ON: 7.30 a.m.	1st OFF: 10.00 a.m.
2nd ON: 12.00 p.m.	2nd OFF: 12.00 p.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.	3rd ON: 5.00 p.m.	3rd OFF: 11.00 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 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 position (see figure 6).

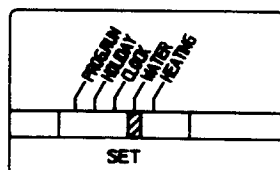


Figure 6

The current DAY OF THE WEEK will flash and the word "SETTING" will be displayed. (see figure 7).

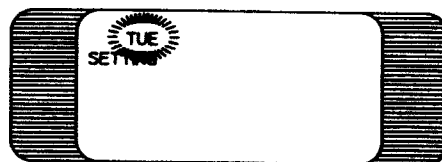


Figure 7

Use the PLUS or MINUS buttons so that the day you wish to alter the switch times for is flashing. Now press ENTER.

The DAY OF THE WEEK will stop flashing and the existing first ON and OFF times for that day 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 8).

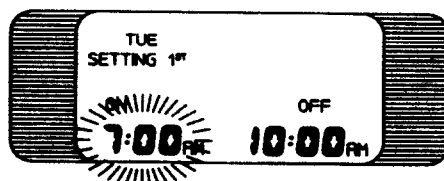


Figure 8

Use the PLUS and MINUS buttons again 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 for that day 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 time of the following day.

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 12.00p.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 flash the next day and the word "SETTING" will be shown.

You can now alter the times for this day in the same way as the previous day and then repeat the procedure for other days in the week as required.

Copy Feature.

The times you set for one day may be suitable for other days eg Monday's program might be applicable right through to Friday.

Your ChannelPlus programmer allows you to COPY times from one day to another.

For example if you have just entered the 3rd OFF time for Monday and "TUE" (Tuesday) is flashing on the display, a press of the COPY button will duplicate Monday's programme onto Tuesday. Further presses of the COPY button will repeat this process for other days of the week. Each time the COPY button is pressed the display will "scroll" through the times that are being copied and will show the day they are being copied from.

Once the switch times for all seven days have been entered the display will go blank except for the word "SET". You have now completed your hot water programme for the week.

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

NOTE: The word SET will only appear on the display if all seven days have been altered or re-entered. It will not appear if just certain days have been altered.

5. SETTING THE ON & OFF TIMES FOR CENTRAL HEATING

NOTE: Your installer will have set the ChannelPlus H27 to suit your particular system. If you have a FULLY PUMPED and controlled system the H27 will allow you to programme totally separate times for hot water and heating.

In this case you should now move the SET slider switch to the HEATING position. This will then allow you to programme your central heating times by following the same procedure as described for your hot water times.

When you have finished return the SET switch to the PROG.RUN position.

If you have a GRAVITY hot water or partially controlled system that doesn't permit central heating without hot water then the H27 will only allow you to enter one "common" set of times for both services.

In this instance the HEATING position on the SET slider switch is not used and you can now return the switch directly to the PROG.RUN position.

6. 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 9).

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

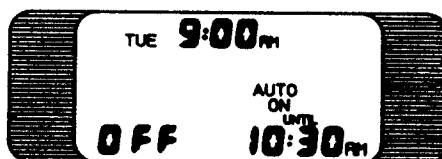


Figure 9

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 H27 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.

Remember: If you have a GRAVITY TYPE system the heating will not function without the water being heated as well. Therefore your heating programme may be overridden by your selected hot water programme and vice versa.

7. 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 10).

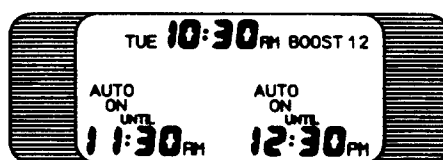


Figure 10

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

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

NOTE: The BOOST will not operate when the programmer is in the permanently ON programme.

8. 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.

NOTE: The ADVANCE will not operate when the programmer is in either the permanently ON or OFF programme.

9. HOLIDAY PROGRAMME.

Your ChannelPlus H27 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 current day of the week, the word SETTING and the number "00" will be displayed. (see figure 11).

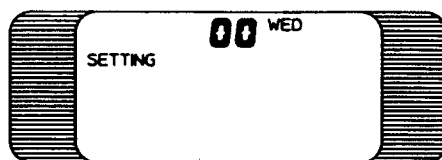


Figure 11

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

You will notice that the day symbol will have changed and this should now reflect the day on which you expect to return.

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 H27's display will continually show the number of nights until the day of return, the actual day of return and confirm the fact that the system is currently OFF.

Should you come back earlier than expected or just wish to cancel the HOLIDAY program 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.

10. RE-SETTING YOUR PROGRAMMER

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

If your programmer's display or switching program 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.

11. 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.

12. SERVICE AND REPAIR.

Your programmer 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 10 of this leaflet.