

## GENERAL INFORMATION

### BATTERY

The programmer is fitted with a non-rechargeable, non-serviceable long life battery, which will maintain the clock and programmed time settings with the mains supply disconnected.

THIS RESERVE SHOULD BE SUFFICIENT TO COVER POWER INTERRUPTIONS DURING THE LIFE OF THE UNIT.

During power interruptions the display will be blank.

### SERVICE AND REPAIR

This programmer is NOT user serviceable. Please do not dismantle the unit. In the unlikely event of a fault developing please refer to the **RESETTING THE PROGRAMMER** section of this user guide located on page 7. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.

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CHANNELPLUS H21XL SERIES 2  
USER INSTRUCTIONS

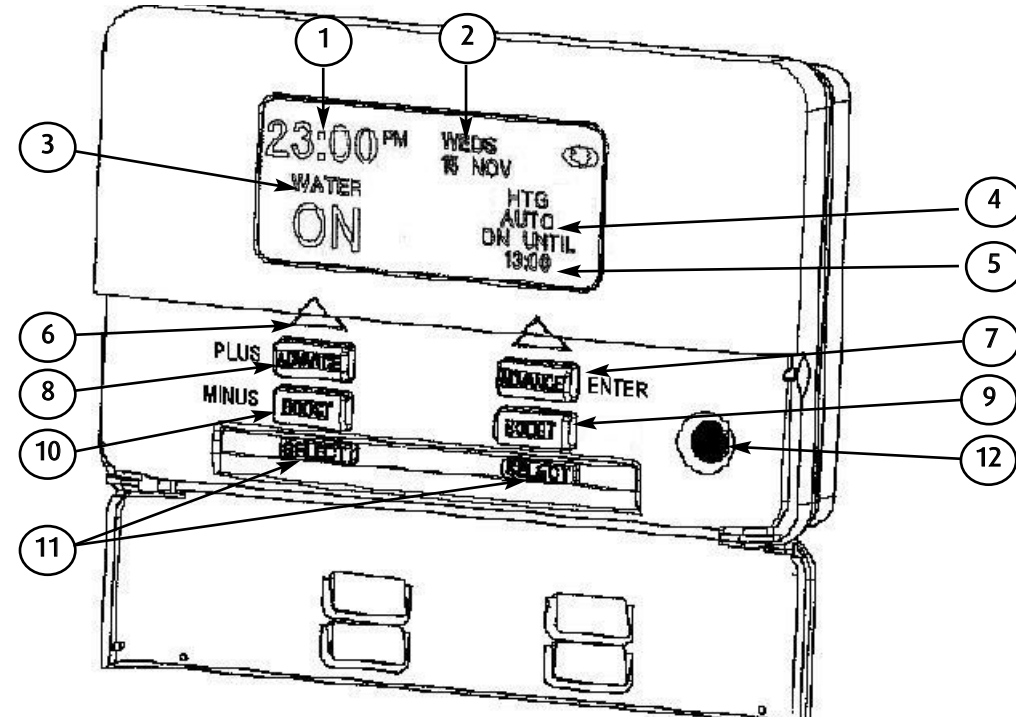


HORSTMANN

### ChannelPlus H21XL Series 2 Two Channel Programmer

Each independent channel can be set to provide up to two on and off operations per day.

Series 2 ChannelPlus programmers directly replace earlier ChannelPlus models.



### PRODUCT OVERVIEW - DETAIL SHOWN WITH THE FLAP LOWERED

**LCD DISPLAY FEATURES** - A fully graphical back-lit display which allows the user the best possible interface with the programme times and functions -

- 1 Current TIME OF DAY
- 2 Day of Week
- 3 Channel Heading
- 4 Current Channel programme
- 5 Next Channel switch time

**LED INDICATOR** - Illuminated buttons give a visual feedback to user operations, as well as indicating the status of a channel.

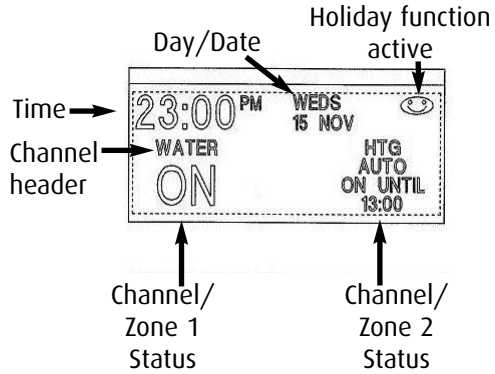
- 6 Channel ON indicator

**EASY TO USE PROGRAMME AND OVERRIDE BUTTONS** - A menu driven display and a preset clock / calendar means that programming is made simple. A one touch override facility makes temporary changes simple to use and view.

- 7 ADVANCE and ENTER button
- 8 ADVANCE and PLUS button
- 9 BOOST button
- 10 BOOST and MINUS button
- 11 Programme Select buttons (Coloured Blue)
- 12 SET button (Coloured Green)

## DISPLAY INFORMATION

Diagram 1



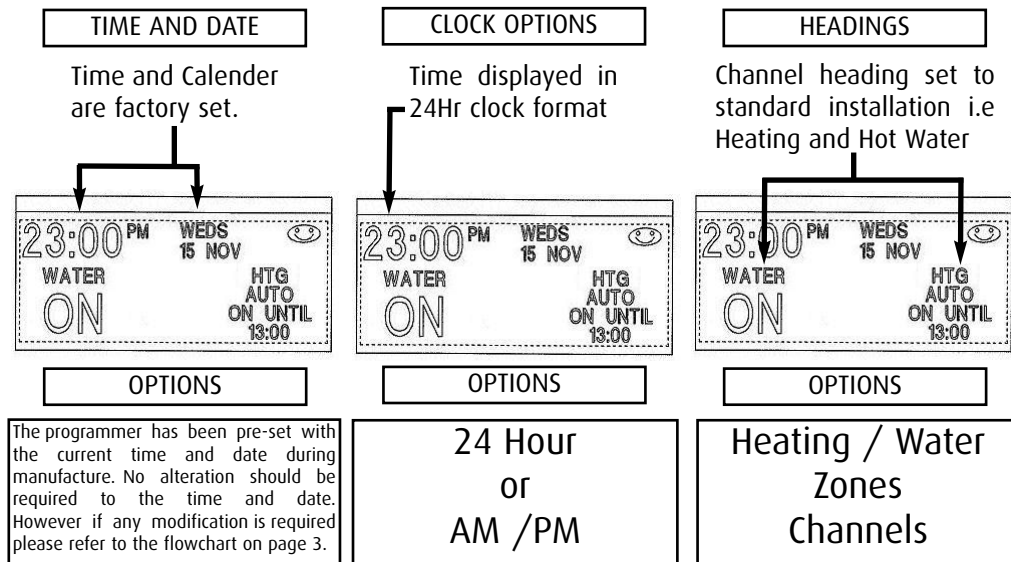
The ChannelPlus H21XL Series 2 programmer has a fully graphical, back-lit display. In the normal run mode the display is divided into two sections, each section represents a controlled channel (see diagram 1). The information displayed will change depending upon the settings made and which mode you are in. During different programming modes and/or setting screens the current time, day/date, holiday indicator will only appear when necessary, this is to reduce confusion during the programming process. This is explained further in later sections of this guide.

## FRONT COVER

The simple instructions contained in this user guide are designed to help with the programming and operation of the unit. Most of the following instructions require the front flap to be lowered. Please replace the flap when normal operation is required.

## ADJUSTING DEFAULT SETTINGS

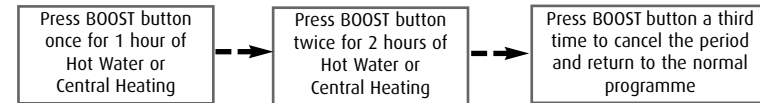
The ChannelPlus H21XL Series 2 has a number of default settings which are factory preset. These settings are designed to reduce the need for user intervention upon installation of the programmer. However it is possible to customise the user display by following the procedures in the following pages. The factory defaults are illustrated below;



## BOOST FUNCTION - 1 OR 2 HOUR TEMPORARY OVERRIDE

The Boost facility will allow the user to either activate a channel which is currently 'OFF' for either 1 or 2 hours, or to extend a current period by 1 or 2 hours. To indicate the boost being activated the 'BOOST' button under the selected channel will stay illuminated for the duration of the boost/extension period. The display will also indicate the extension to the time visually on the display.

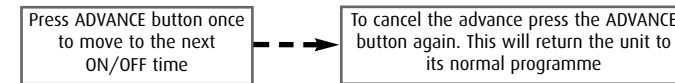
The chart below illustrates the different options available. As all both channels are totally independent it is possible to have them set differently.



## ADVANCE FUNCTION - BRINGS FORWARD THE NEXT ON OR OFF OPERATION

The Advance facility will allow the user to either bring a channel 'ON' which is currently 'OFF' or switch channel 'OFF' which is currently 'ON'. To indicate the Advance feature being activated the 'ADVANCE' button under the selected channel will stay illuminated until the next programme switching time, the user display will change to also indicate the status of the channel and the next switching time.

The chart below illustrates the different options available. As all both channels are totally independent it is possible to have them set differently if required.



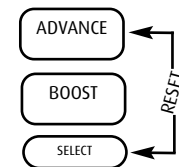
## RESETTING THE CHANNELPLUS H21XL SERIES 2

Electronic equipment can in some circumstances be affected by electrical interference. If the display becomes frozen or scrambled; or if you wish to revert back to the default settings please use the following procedure.

### RESET PROCEDURE

**PLEASE NOTE;** Using this procedure will restore the ChannelPlus to the original factory programme settings, the time setting will also default to **1st January 2005** - See Adjusting Time and Date on page 3.

Lower the front flap of the unit. On right hand Channel press the ADVANCE(Enter) and SELECT(Blue) buttons together then release the buttons and the programmer will return to the preset factory settings.

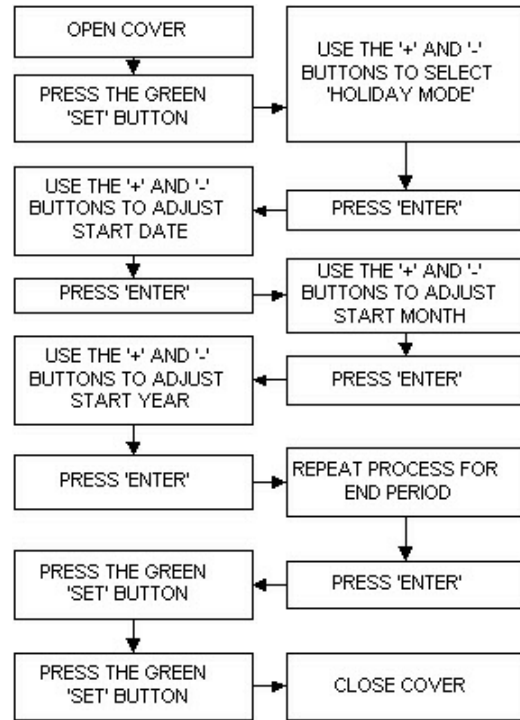


## SETTING THE HOLIDAY MODE

The holiday mode can be used to suspend the program function of the ChannelPlus programmer, it can be set in advance of your departure date and for as long a period as required. The holiday function operates from mid-day to mid-day, this means it can be easily set to ensure your home is warm for your return. When the holiday mode has been set a smiley face '☺' will appear on the display. When the holiday mode is active **only** the day / date and smiley face will be displayed.

PLEASE NOTE; Any alteration to the current time or date will cancel any Holiday programme set

### SAMPLE DISPLAYS



## PROGRAMME OVERRIDE FACILITIES

With the ChannelPlus H21XL Series 2 programmer operating in the normal running mode it is possible to alter the functionality of the programme on each individual channel. The options include; **Auto** - Programmer follows all programmed 'ON' and 'OFF' times.

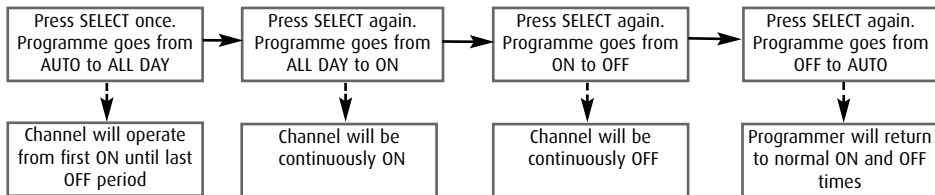
**All day** - Channel operates from 1st 'ON' time until 3rd 'OFF', ignoring all switching times in between. Useful for unexpected times of occupation or to maintain a constant temperature during an extended period.

**On** - Channel will be constantly 'ON'.

**Off** - Channel will be constantly 'OFF', ability to turn off heating during summer without altering the programme times.

All of the settings above will be permanent, i.e. unaffected by programme times, until alteration by the user.

The diagram below illustrates how to alter the setting, it assumes that the channel is in the AUTO mode to begin with. As both channels are totally independent it is possible to have them all set differently if necessary.

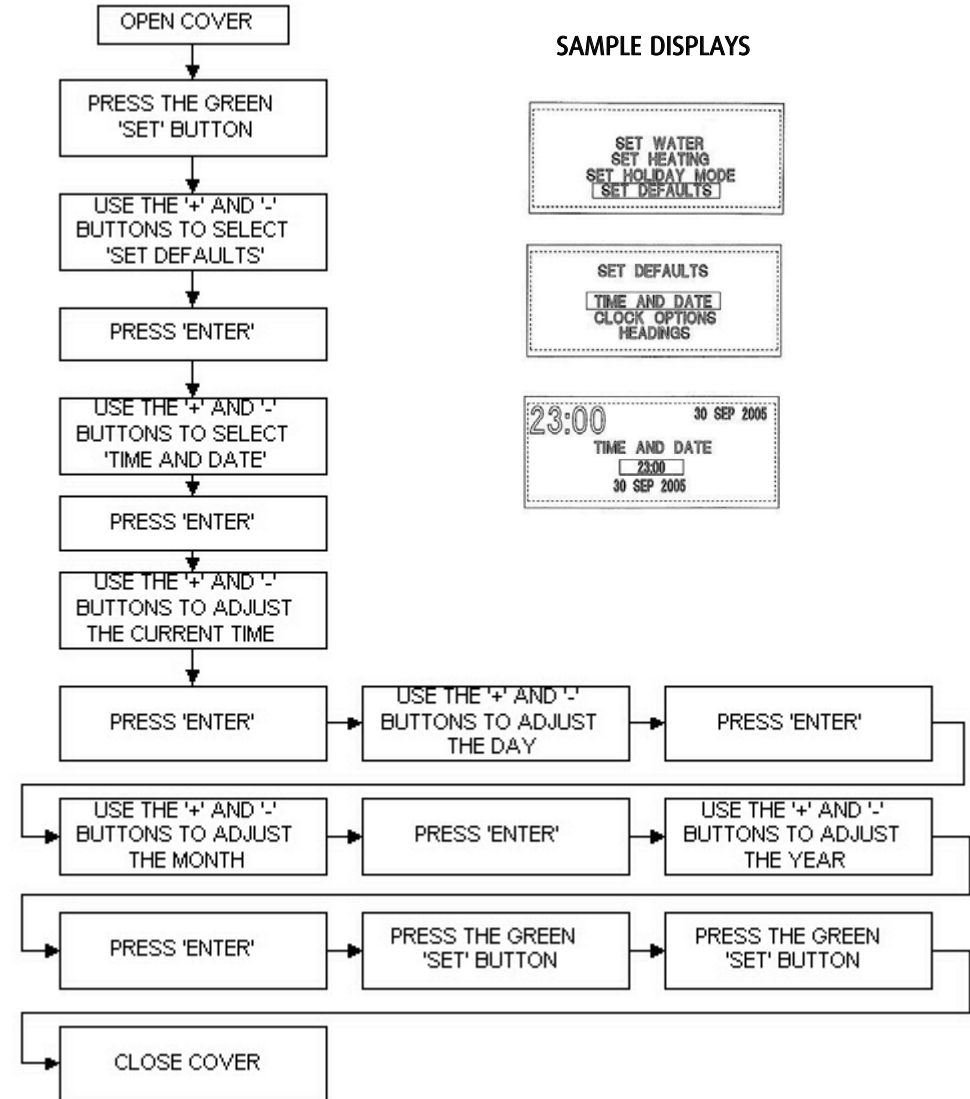


## ADJUSTING TIME AND DATE - SEE NOTE BELOW

The ChannelPlus H21XL Series 2 programmer has been preset with the current time and date during manufacture. No alteration should be required to the time and date, however if any modification is required please refer to the flowchart below.

PLEASE NOTE; Any alteration to the current time or date will cancel any Holiday programme set. It will also cause any Boost or Advance operations to be cancelled.

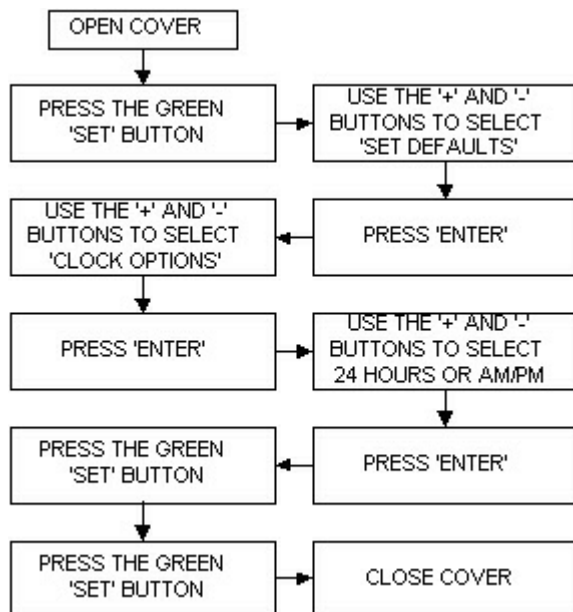
### SAMPLE DISPLAYS



## ADJUSTING CLOCK OPTIONS

The programmer has been preset to display the time in 24 hour clock format, should you prefer an AM/PM display then please follow the flowchart opposite.

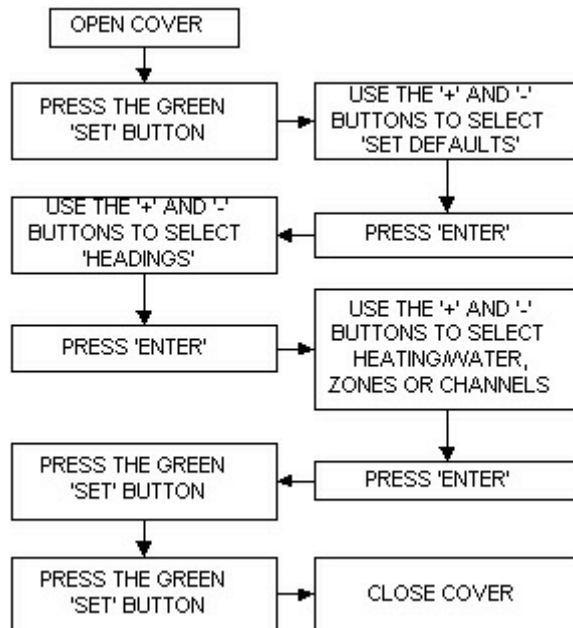
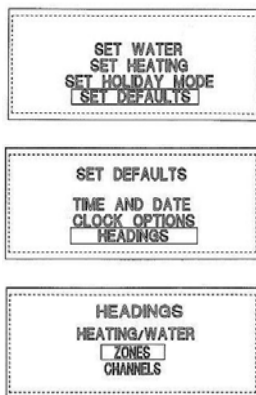
### SAMPLE DISPLAYS



## ADJUSTING CHANNEL HEADINGS

The programmer has been preset to display the channel heading as 'Heating and Hot Water', should you require either the 'Zone' or 'Channel' options then please follow the flowchart opposite.

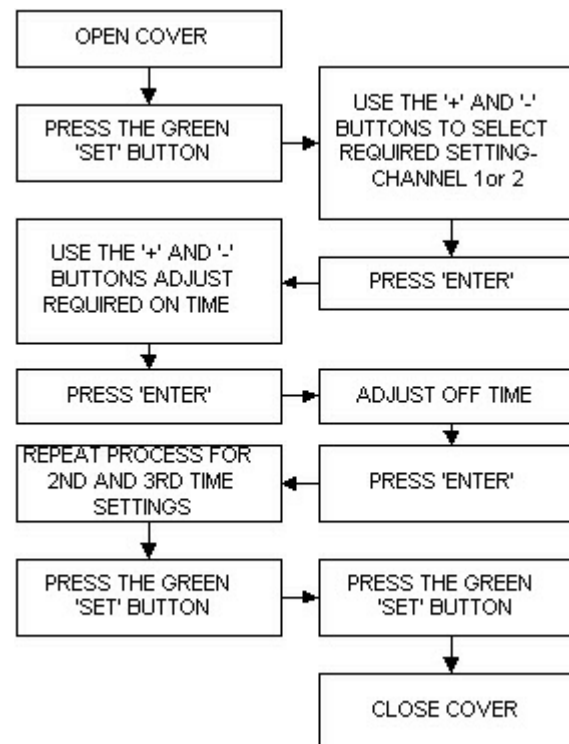
### SAMPLE DISPLAYS



## SETTING THE PROGRAMME TIMES

The programme times have been pre-set as shown in the chart below, if any changes are required to the programme times please complete the operation as described in the flowchart below.

DEFAULT TIME SETTINGS					
1st ON	1st OFF	2nd ON	2nd OFF	3rd ON	3rd OFF
6:30 AM	8:30 AM	12:00 PM	12:00 PM	4:30 PM	10:30 PM



### SAMPLE DISPLAYS

