

NOTE: If the programmer is in the OFF mode and then +HR button (1 or 2) is pressed (+1 HR, + 2 HR, or + 3 HR) and the resulting time of the boost overlaps a START / ON time in the AUTO mode programme memory then the boost will disengage. If this happens simply press +HR button (1 or 2) again and the boost will activate for the time period chosen.

LINKED CENTRAL HEATING AND HOT WATER TIMES

To link the programmes hold down the COPY button whilst pressing RESET.

<u>Configuration</u>	<u>Display</u>	<u>Programme Notes</u>
2 ON/OFF Pumped System 2PI		Times same & linked for Central heating and Hot Water
3 ON/OFF Pumped System 3PI		Times same & linked for Central heating and Hot Water
2 ON/OFF Gravity System 2GI		Times same & linked for Central heating and Hot Water
3 ON/OFF Gravity System 3GI		Times same & linked for Central heating and Hot Water

The last letter of the configuration (i.e. a U or an A) will be L if the Central Heating and Hot Water programmes have been linked. In this mode the Hot Water will run from the Central Heating programme, so changes to the programme need only be made once and this will affect both the Central Heating and Hot Water.

POWER INTERRUPTION

In the event of a mains supply failure the screen will go blank but the back-up battery ensures that the programmer continues to keep the time and retain your stored programme. When power is restored, if there has been no change to the rear DIP switch, the programmer then goes to RUN mode. If the configuration setting on the rear DIP switch has been altered during the power interruption the screen will initially show the new configuration. And the appropriate factory default programme (see BUILT IN PROGRAMME section) will be installed. Press SET button to return to RUN mode.

Technical Helpline: 01475 745131



SERVICE AND WARRANTY

Your product is not user serviceable. PLEASE DO NOT TRY TO DISMANTLE THE UNIT. This product is guaranteed by your supplier for 3 years from the Date of Manufacture. If it should become defective, please contact your installer or supplier for a replacement unit or visit www.sangamo.co.uk/returns.

CUSTOMER CARE POLICY

As part of Sangamo's continuous improvement program, the Company operates a Customer Care Policy. This means that we welcome your comments and complaints, as it can help us to improve our services to you, our customer.

Due to our policy of continuous product improvement and development, the specifications in this guide may be subject to change without prior notice.

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SANGAMO

CHOICE PR 2

USER INSTRUCTIONS 2 CHANNEL PROGRAMMER



What is a central heating programmer...?

Central Heating programmers allow you to set 'On' and 'Off' time periods for your heating and/ or hot water. One Channel models switch your central heating and domestic hot water on and off at the same time, while the two and three channel versions control your domestic hot water and heating to come on and go off at different times. Three channel programmers are often used to provide separate control for two heating zones (perhaps upstairs and downstairs) as well as the separate control for your hot water.

Sangamo Choice programmers make it easy to set the 'On' and 'Off' time periods to suit your own lifestyle, with options for; 7 day, 5/2 day, and 24 hour programming. You can also choose to have your heating and hot water on continuously or be permanently off.

Choice programmers also adjust automatically between Greenwich Mean Time and British Summer Time. The Choice programmers even have a default set of programmes, so you can decide not to adjust the programming at all! And to improve your comfort, you can temporarily adjust the heating programme, with the Choice; 'Advance' or 'Boost' buttons.

PROGRAMMER SUMMARY

This programmer can automatically switch your central heating and hot water ON and OFF up to 3 times a day, at whatever times you choose. Timekeeping is maintained through power interruptions by a non replaceable battery designed to last for the lifetime of the programmer.

The clock is automatically put forward 1 hour at 1:00am on the last Sunday of March and back 1 hour at 2:00am on the last Sunday of October. The clock is factory pre-set to UK time and date, but you can alter the time setting if you wish.

During installation, the installer selects 24 hour, or 5 day/2day, or 7 day programming and 2 or 3 on/off periods per day and pumped system or gravity system via a 4 position DIP switch on the back of the unit (see installation instructions).

IMPORTANT: These settings should only be changed by a qualified person.

Contact your installer.

IMPORTANT: This programmer is not suitable for the switching of devices greater than 6Amp rated. (eg. Not suitable for use as an immersion timer)

The large, easy to read display makes programming easy and the unit is designed to eliminate the possibility of accidental changes to your programme. Buttons normally visible only affect your set programme temporarily. All buttons which can permanently change your programme are located behind the flip-over facia.

- The 24 hour programmer option runs the same programme every day.
- The 5 day/2 day programmer option allows different ON/OFF times at week ends.
- The 7 day programmer option allows different ON/OFF times for each day of the week
- Pumped System (P_) – allows independent control of Central Heating and Hot Water
- Gravity System (G_) – does not allow Central Heating without Hot Water but can provide Hot Water without Central Heating.

CONFIGURATION

When setting time, date or changing programme times the first screen displayed indicates the configuration as set up by the installer. (See SETTING THE TIME section)

Configuration	Display	Programme Notes
2 ON/OFF Pumped System	2PU	Times for Central heating and Hot Water can be independently set.
3 ON/OFF Pumped System	3PU	Times for Central heating and Hot Water can be independently set.
2 ON/OFF Gravity System	2GA	Times for Central heating and Hot Water can be independently set.
3 ON/OFF Gravity System	3GA	Times for Central heating and Hot Water can be independently set.

The 24 hour, or 5 day/2day, or 7 day programming option as set up by the installer can also be verified at this stage by how the Monday to Sunday indicators are displayed

Programming option	Monday to Sunday Indicators flash
7 DAY	Mon to Sun individually shown
5/2 DAY	Mon to Fri together then Sat & Sun together shown
24 HOUR	Mon to Sun together shown

Now press any button to move to Setting the Time and Day.

To advance Hot Water

Press the Hot Water channel ADV (2) button. This will turn the Hot Water ON if it is in an OFF period and OFF if it is in an ON period. It will stay in this state until either ADV(2) button is pressed again, or until a programmed ON/OFF period commences. The word ADV will appear in the top right hand corner of the LCD.

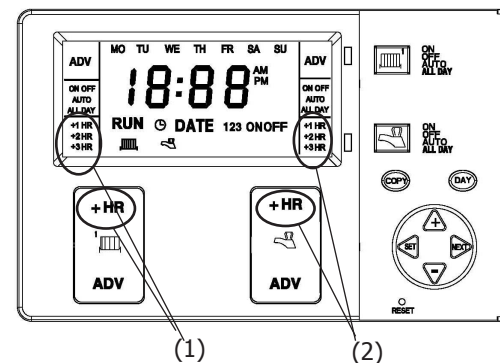
USING THE +HR BOOST

For +Hr Central Heating

Press the upper half of the Central Heating channel +HR button (1) to make the desired selection with one, two or three hours extra heating and cancel options offered.

Warning: The +HOUR function is only available when programme is in AUTO, ALL DAY or OFF operating modes.

If the Central heating operating mode is OFF, then it will switch on for the extra hours selected. If the Central heating mode is AUTO or ALL DAY, then during an OFF period, it will switch on for the extra hours selected. If during an ON period, then it will temporarily extend that programme by the number of hours selected.



For +Hr Hot Water

Press the upper half of the Hot Water channel +HR button (2). to make the desired selection with one, two or three hours extra heating and cancel options offered.

Warning: The +HOUR function is only available when programme is in AUTO, ALL DAY or OFF operating modes.

If the Hot Water operating mode is OFF, then it will switch on for the extra hours selected. If the Hot Water mode is AUTO or ALL DAY, then during an OFF period, it will switch on for the extra hours selected. If during an ON period, then it will temporarily extend that programme by the number of hours selected.

To change the Hot Water times

Press SET button (1) until tap icon (2) flashes in the display and 1 ON (3) appears. This indicates the time shown on the display is the first ON time and proceed in same manner as 'To change the Central Heating Times' above.

PROGRAMMING NOTES

The unit will automatically return to RUN mode if a period of 5 minutes passes without any buttons being pressed.

For convenience, to allow for programmes to go past midnight, the programme day is from 03:00am to 02:50am the next day.

If a programme is required to run from 1.00 am to 8.00 am then 2 programmes must be used because it is not possible to programme through 2.50 am. (The programme should be split up into two sections ; 3.00 am > 8.00 am and 1.00 am > 2.50 am).

RESET

Press the reset button with a non-metallic pointed tool to restore the built in programme. As well as restoring the built in programme, it also resets the time to 12:00pm and the date to 01/01/2000. Initially the display shows all segments lit for a few seconds, but then will show the current configuration. See SETTING THE TIME section to continue.

NOTE: As a safety feature after reset the unit will be in OFF operating mode reselect your required operating mode.

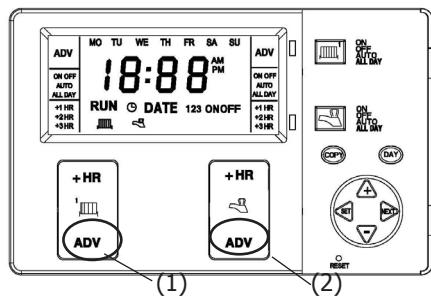
NOTE: Use of excessive force may result in the reset button sticking behind the front cover of the programmer. If this happens the unit will "freeze" - and the button can only be released by a qualified installer

USING ADVANCE

The ADVANCE function allows the user to move to the next ON or OFF programme for a "one off" event, without having to change the programme or use the ON or OFF buttons. **Warning:** The ADVANCE function is only available when programme is in AUTO or ALL DAY operating modes.

To advance Central Heating

Press the Central Heating channel ADV (1) button. This will turn the Central heating ON if it is in an OFF period and OFF if it is in an ON period. It will stay in this state until either ADV(1) button is pressed again, or until a programmed ON/OFF period commences. The word ADV will appear in the top left hand corner of the LCD.



BUILT IN PROGRAMME

For convenience, the programmer has a built in programme which will be satisfactory for many people, but which can be changed very easily (see section CHANGING PROGRAMME TIMES). Once the unit is powered up this built in programme will run.

If the user changes from the built in programme and wishes to return to it, then pressing the reset button with a non metallic pointed tool will return the unit to the built in / default programme. NOTE: Every time the reset is pressed, the time and date must be set again.

(See the sections SETTING THE TIME & SETTING THE DATE)

The built in programme is the same for central heating and hot water channels(see below).

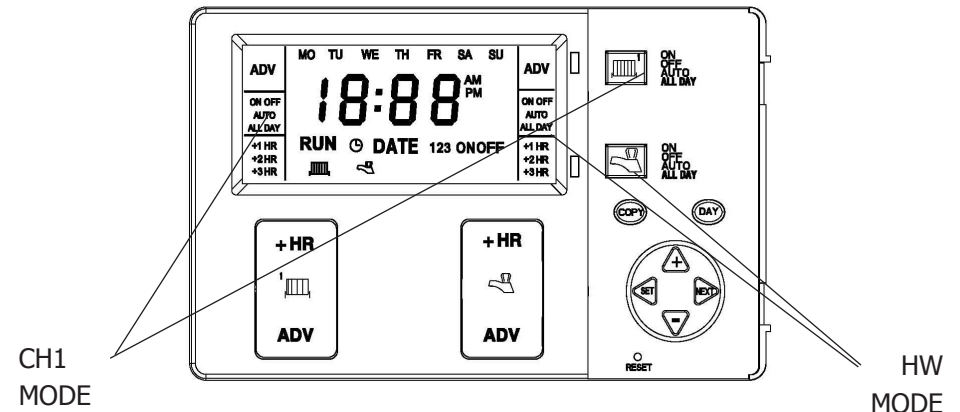
Factory Programme Settings

Configuration 2P* & 2G*	Configuration 3P* & 3G*	Mon-Fri	Sat-Sun
1st ON	1st ON	06:00am	07:00am
1st OFF	1st OFF	08:30am	09:00am
-	2nd ON	12.00noon	12.00noon
-	2nd OFF	12.00noon	12.00noon
2nd ON	3rd ON	04:30pm	04:30pm
2nd OFF	3rd OFF	10.30pm	11.00pm

* = The last letter of the configuration and may be a U, A or L.

If the unit is installed as a 24 hour programmer the built the in programme will be the same for each day (same as Mon-Fri above).

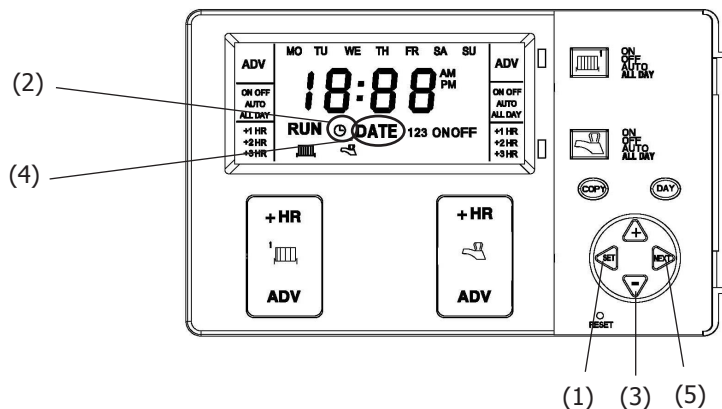
SELECTING OPERATING MODE



ON	Central heating and Hot water is ON continuously
AUTO	Central heating and Hot water will be switched ON or OFF as programmed
ALL DAY	Central heating and Hot water will be switched ON only once each day between the first ON time and last OFF time.
OFF	Central heating and Hot water continuously OFF

SETTING THE TIME

- Press the SET button (1) once. The configuration setting will appear on the screen.
- Press the SET button (1) again. The clock icon (2) on the screen will flash.
- Press the +/- buttons (3) to adjust the time. Time will change quicker if pressed continually.
- Press SET (1) once to move on to setting the DATE or press multiple times to return to RUN mode.



SETTING THE DATE

- Press the SET button (1) until the Y:XX icon (year) appears and the D (DATE) icon (4) flashes.
- Press the +/- button (3) to set the year.
- Press NEXT button (5). M:XX appears (month).
- Press +/- button (3) to set month.
- Press NEXT button (5). D:XX appears (Day).
- Press +/- button (3) to set day.

You can review or edit the date you have set just by pressing NEXT button (5) again and repeating the sequence above. To confirm the date and move on to PROGRAM mode press SET button (1) once or press SET button (1) multiple times to return to RUN mode.

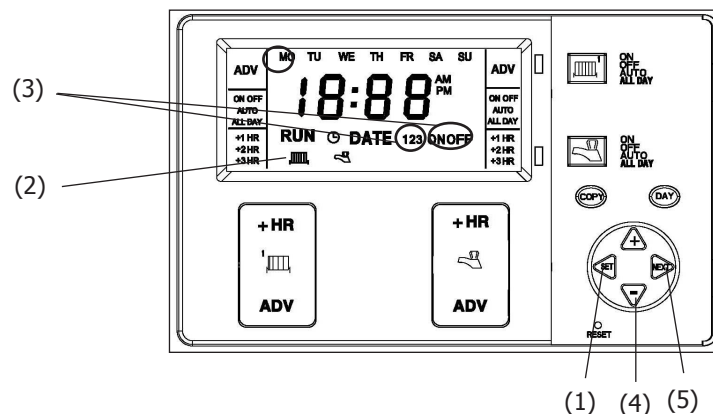
CHANGING PROGRAMME TIMES

The built in programmes for Central Heating and Hot Water can easily be changed to better suit your lifestyle.

To change the Central Heating times:

Press SET button (1) until radiator icon (2) flashes in the display and 1 ON (3) appears. This indicates the time shown on the display is the first ON time.

By pressing the +/- buttons (4) you can alter the ON time to the time you want.



Press NEXT button (5), display will now show 1 OFF (3).

By pressing the +/- buttons (4) you can alter the OFF time to the time you want.

Press NEXT button (5) to access remaining ON/OFF periods and alter in same manner as above.

To return to RUN mode, press the SET button until the display indicates RUN on the display

NOTE: Programming is in 10 minute segments.

7 day programmer option

If the unit is installed as a 7 day programmer, the initial programme displayed will be for Monday. You can go to any date of the week by pressing the DAY button repeatedly.

The ON/OFF times can be changed for each day as described above in the section "CHANGING PROGRAMME TIMES".

If you press the COPY button, the current programme will be copied onto the next day.

NOTE: it is not possible to copy Sunday to Monday.

5 day / 2 day programmer option

If the unit is installed as a 5 day/2 day programmer, the initial programme displayed will be for Monday to Friday.

Pressing the DAY button will take you to the programme for Saturday and Sunday.

The ON/OFF times can be changed for each day group as described above in the section "CHANGING PROGRAMME TIMES".

If you press COPY button, the current programme will be copied onto the next day group.

24 hour programmer option

If the unit is installed as a 24 hour programmer, the built in programme will be the same for each day. The COPY & DAY buttons have no affect if installed as a 24 hour programmer.