

SELECT 207 XLS Programmer

USER INSTRUCTIONS

What is a Programmer

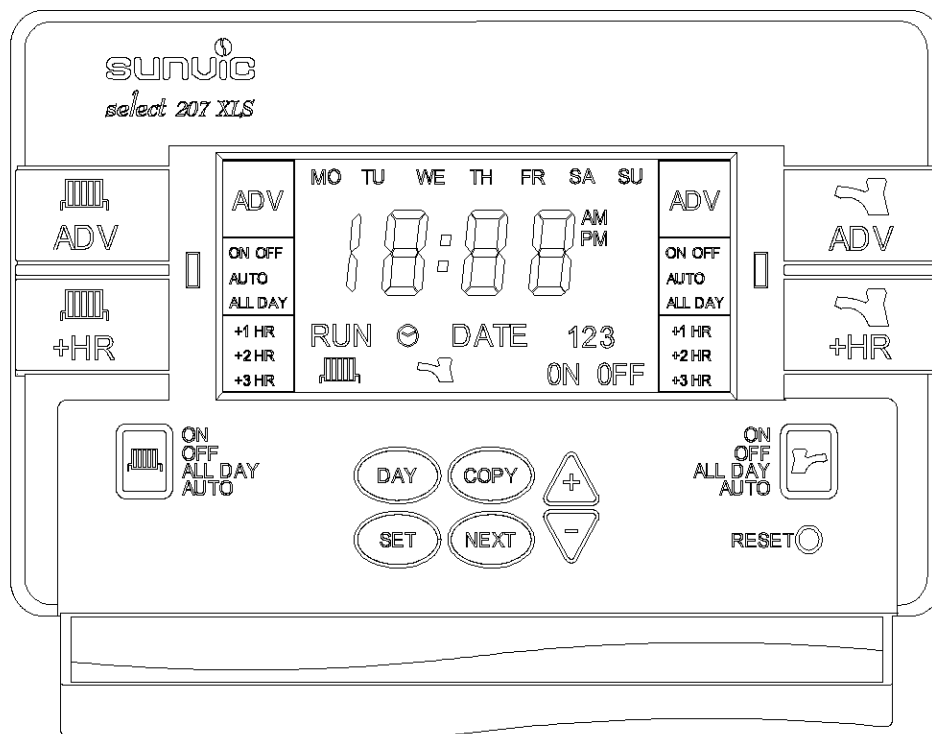
A programmer allows you to set ON OFF time periods. Some models switch the domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.

Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.



INTRODUCTION

This central heating programmer can automatically switch your central heating and hot water ON & OFF, independently, up to 3 times a day at whatever times you chose.

During installation, the installer selects 24 Hr., 5 day / 2 day or 7 day programming and 2 or 3 ON/OFF periods per day, via the 4 position DIP switches on the back of the unit. (See installation instructions).

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

The 24 Hr. programmer option runs the same programme every day.

The 5day/2day programmer option allows different ON/OFF times at weekends.

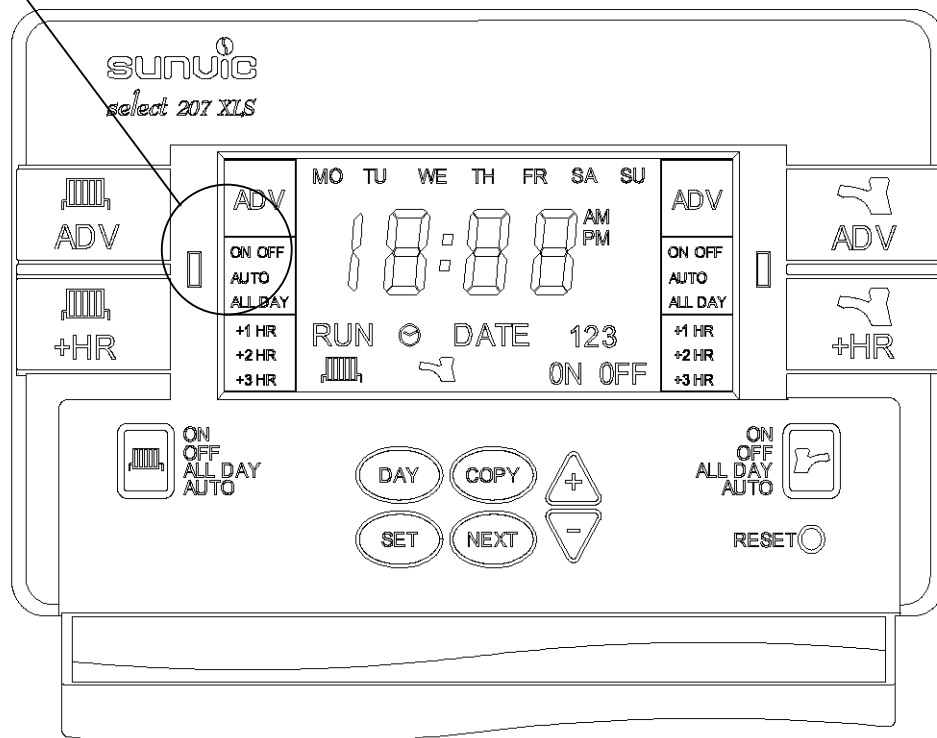
The 7 day programmer option allows different ON/OFF times for each day of the week.

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 down fascia.

SELECTING OPERATING MODE

The heating and hot water mode select buttons are used to set the operating mode for Central heating and Hot water respectively. Each has 4 modes as described:

- ON:** Central heating and/or hot water on continuously. (I.E. on all the time)
- AUTO:** Central heating and/or Hot water will be switched ON or OFF as programmed
- ALLDAY:** Central heating and/or Hot water will be switched ON only once each day
It will be switched ON at the first ON time and OFF at the last OFF time
- OFF:** Central heating and/or Hot water will be continuously OFF



Setting the Time and Date

Press the **SET** button the **clock** icon on the screen will flash. Press the +/- buttons to adjust the time. Hold down button to change time quicker.

Press **SET** button till the Y:00 icon (year) appears and the letter **D** flashes. Press the +/- button to set the year. Press **NEXT**, N:00 appears (month). Press +/- button to set month. Press **Next**. d:00 appears (day). Press +/- button to set day.

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

CHANGING PROGRAMME TIMES

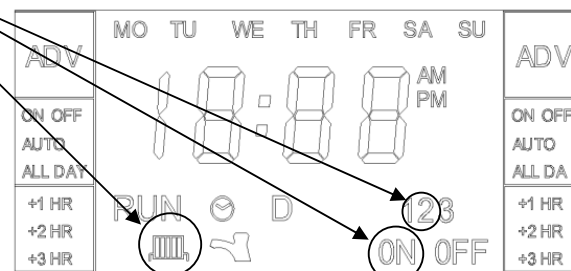
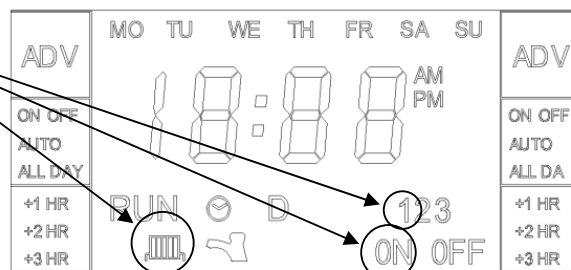
The built in programmes for Central heating and Hot water can be easily changed to better suit your needs.

To change the **Central heating** programme, press **SET** until the radiator icon flashes in the screen and **1 ON** appears. This indicates the time shown on the display is the first **ON** time. Change this to the required **ON** time by pressing the +/- buttons.

Press **NEXT** button, the display will now show **1OFF**. Change as before.

Use **NEXT** and +/- buttons in this way to programme the second time period.

If the unit is set for 3 ON/OFF periods, the number 3 will appear. This is set in exactly the same way as the previous first and second time period.



If the unit is installed as a 7 day programmer, the initial programme displayed will be for Monday. You can go to any day of the week by pressing the **DAY** button repeatedly. The **ON/OFF** times can be changed for each day as above in the “changing programme times”. If you press the **COPY** button, the current programme will be copied onto the next day.

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 above in the “changing programme times”. If you press copy, the current programme will be copied onto the next day group.

If the unit is installed as a 24 hour programmer, the built in programme will be the same for each day. The **COPY** function is not required if installed as a 24 hour programmer.

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

To change **HOT WATER programme**.

Press **SET** button until the ‘tap’ symbol appears and proceed exactly as Central heating above.

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

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

If your programme gets 'scrambled', or if you want to start again, press the reset button using a non metallic tool to re-load the default programmes, then press any button to clear the DIP switch configuration code. The unit should revert time setting mode ready for programming.

USING ADVANCE

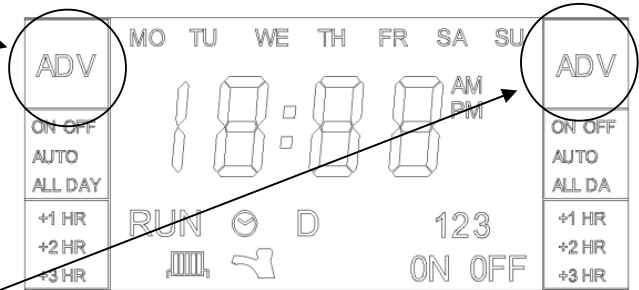
This function is only available when programme is in **AUTO** or **ALLDAY** operating modes.

To advance central heating

Press the CH 1 channel **ADV** button. This will turn the Central **ON** if it's in an **OFF** period and **OFF** if it's in an **ON** period. It will stay in this state until either **ADV** is pressed again, or until a programmed **ON/OFF** period commences. The word **ADV** will appear in the top left hand corner of the MODE box

To advance Hot water, press Hot water **ADV** button. This will turn the Hot water **ON** if it's in an **OFF** period and **OFF** if it's in an **ON** period. It will stay in this state until either **ADV** is pressed again, or until a programmed **ON/OFF** commences.

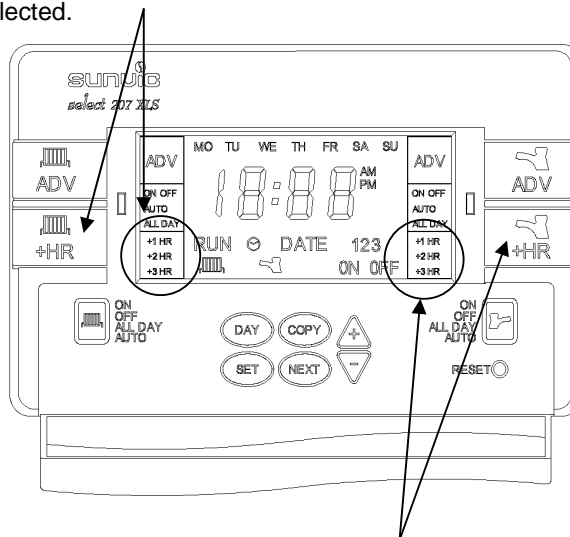
The word **ADV** will appear in the top right hand corner of the MODE box.



USING +Hrs.

For +Hrs. Central heating, press the left hand + Hr. button. One press of the button will give one extra hour of heating. Two presses of the button will give two extra hours of heating. Three presses of the button will give the maximum of three hours extra heating.

If the Central heating mode is **OFF**, then it will switch on for the extra hours selected. If the Central heating mode is **AUTO** or **ALLDAY**, 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 +Hrs. Hot water. Press the right hand +Hrs. button. One press of the button will give one extra hour of Hot water, two presses of the button will give two extra hours of heating and three presses of the button, will give the maximum 3 extra hours.

If the Hot water mode is **OFF**, then it will switch on for the extra hours selected. If the Hot water mode is **AUTO** or **ALLDAY**, 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.

POWER INTERRUPTION

In the event of a mains supply failure, the back-up battery ensures the programmer continues to keep time and retain your stored programme. The screen will go blank, but will return when power is restored.

THE RESET BUTTON

Press the reset button with a non-metallic pointed tool to restore the built in programme plus the time and date. The display will then show the current state of the configuration switches.

BRITISH SUMMER TIME

The programmer will automatically change from Greenwich mean time to BST and vice versa.

Installation Instructions

SELECT 207 XLS Programmer

Technical Data

Power supply:	230v AC 50Hz.
Ambient temperature:	Operating 0°C to 35°C
Total Input:	6A
Switch Rating:	230vAC 6(2)A
Battery:	Never needs replaced
Wiring:	For fixed wiring only
Maintenance:	No user maintenance reqd.
Disconnection class:	1B

This unit must be installed by a competent person in accordance with the latest appropriate wiring regulations.

Pre Installation set-up

Before installing, set the bank of 4 DIP switches on the back, to configure the unit according to the chart below.



DIP switches shown in factory default position

Pumped – Allows independent control of CH and HW.

Gravity – Does not allow CH without HW, but can Provide HW without CH.

24Hr. - Runs same programme every day

5/2 Day - Allows different ON/OFF times at weekend

7 Day - Allows different on/off times every day

When unit is first switched on, or when the reset button is pressed, the status of the DIP switches is displayed.

INSTALLATION

This unit is compatible with many other programmers and may be fitted to existing standard wall plates. Please consult the '**WIRING INTERCHANGE GUIDE**' for compatible programmer types. Some are directly interchangeable, others will require minor changes to wiring connections.

Be sure to switch off the mains supply before starting. Please read all installation instructions before proceeding.

Ensure that the fixed wiring connections to the mains supply, is via a fuse rated at not more

6 amps, and a class 'A' switch, having a contact separation of a minimum of 3mm in all poles.

DIRECT UPGRADE FOR EXISTING PROGRAMMERS

1. Switch off mains. Loosen 2 securing screws on old programmer and unplug it.

2. Check existing wall-plate has been correctly fitted. (See section, Fitting wall plate)

3. Plug SELECT programmer into wall-plate and re-tighten screws. Switch on at mains.

4. Set timing and programme as detailed in user guide

Please note, If you wish to change any of the DIP switch functions at any time, when the unit is replaced back on the wall plate, it will flash the latest configuration for 10 secs. and then revert back to normal run time. If you don't want to wait for the 10 secs. pressing any button will also take the programmer back to the normal run time.

FITTING WALL PLATE

1. Position the wall-plate (terminals along the top edge) with 60mm(Min) clearance to its right, 25mm(Min) above, 90mm(Min) below. Ensure that the supporting surface will fully cover the back of the programmer.

2. Ideal location would be 1.4m above floor level, easily accessible, reasonably lit and free from condensation or temperature extremes.

3. Fix the wall-plate to a flush mounting single conduit box type UA1(BS4662) using M3.5 x 14 bolts.

4. Ensure that the wiring to the wall-plate terminals leads directly away from the terminals and is completely enclosed within the wall-plate aperture. Wire ends must be stripped and screwed to the terminals, so that minimal bare wire is showing.

5.If the unit is fitted to a metal surface, IT IS ESSENTIAL that the metal be earthed. Do not use a surface mounting box.

6.Ensure the mains supply is switched off, then make wiring connections. No EARTH connection is required, but ensure continuity of EARTH throughout the system.

7.After wiring, plug unit into wall plate and tighten the securing screws. Switch on at mains.

8.Setting timing and programme as detailed in user guide.

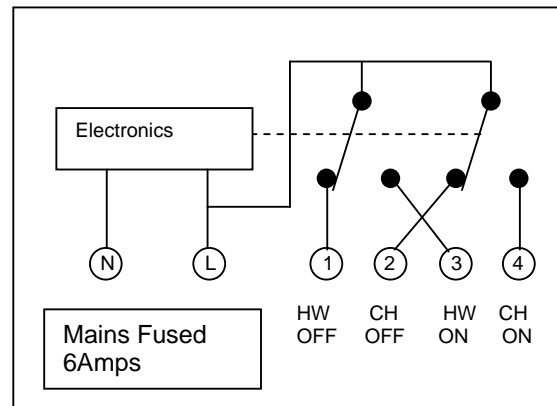
9.NEVER fit or remove the unit to a LIVE wall-plate.

Factory set programme		
	Mon to Fri	Sat/Sun
1 st on	06:00	07:00
1 st off	08:30	09:00
2 nd on	12:00	12:00
2 nd off	12:00	12:00
3 rd on	16:30	16:30
3 rd off	22:30	23:00

If unit is installed as a 24 hour programmer, the built in programme will be the same for each day. (The weekdays programme)

Configuration	Display
2 On/Off pumped	2PU
3 On/Off pumped	3PU
2 On/Off gravity	2GA
3 On/Off gravity	3GA
Mon to Sun indicators	
7 Day	Mon to Sun successively on
5/2 Day	Mon to Fri on alternating with Sat Sun on
24 Hour	Mon to Sun on all together

Programmer internal wiring diagram



This product complies with the essential requirements of the following EC Directives:
 Electro-magnetic compatibility directive
 EMC 89/336/EEC (as amended by 91/263/EEC
 And 92/31/EEC
 Low Voltage directive
 LVD 73/23/EEC;93/68/EEC

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In the interests of continuous product improvement, Sunvic Controls reserve the right to alter designs, specifications and materials, without prior notice, and cannot accept liability for error.

Installation leaflet LE/497/0001 ISSUE 01 Jan 2007

Direct plug-in upgrade for existing programmers

Programmer will plug directly onto existing wall-plates of the following programmers without any rewiring, just follow the installation instructions.

MANUFACTURER	MODEL	MANUFACTURER	MODEL
ACL	LP112, LS241, LS522, LS722 LP241, LP522, LP722	LANDIS & GYR	RWB2, RWB2.9, RWB 102, RWB200, RWB252, RWB20 RWB40
DANFOSS	FP75, FP15, CP75, CP15	POTTERTON	MINIMINDER
DRAYTON	TEMPUS 3 & 4 & 7	GLOW-WORM	MASTERMIND
SUNVIC	SELECT 207		

Otherwise fit new wall-plate supplied, and refer to wiring interchange guide below.

WIRING INTERCHANGE GUIDE

When replacing any of the below with your Sunvic SELECT 207XL programmer, fit new wall-plate supplied and follow the connection details shown. Whilst every effort is made to ensure accuracy of the instructions given, you will appreciate that discrepancies may occur, due to various reasons outside of our control.

Make	Model	Terminals					
		N	L	1	2	3	4
Sunvic	SELECT 207XL						
	SP100 & SP50	N	L	1	4	2	5
	SP2	N	L	1	4	3	6
Satchwell	Libra & DHP2201	1	2	8	5	6	3
Satchwell	ET1401 & ET1451	1	2	8	5	7	4
Honeywell	ST699B & C	N	L	7	4	6	3
	ST499A	N	L	-	-	6	3
	ST6300 & ST6400	N	L	1	2	3	4
	ST7100	N	L	7	4	8	5
ACL	MP	2	1	-	-	6	10
	FP	2	1	8	11	6	10
	2000	N	L	hw off	ch off	hw on	ch on
Randall	922 & 972	N	L	1	4	3	6
	4033	7	6	5	3	4	2
	701	N	L	-	-	3	1
	702	N	L	4	2	3	1
	102	5	6	-	-	1	2
	3060 & 3020P	1&7	6	-	-	4	2
	3033	1&7	6	5	3	4	2
	SET2 & SET5	N	L	3	6	1	4
TSR3+3	3&6	7	2	5	1	4	
	MK11 R6	3	1&2	-	-	4	5
	TSR2P	3	1	-	-	5	7
Sangamo	410F1 & F9 & F414	4&5	3&6	2	7	1	8
	M5	4	3	-	-	1	6
Potterton	EP2000 & EP3000	N	L	1	2	3	4
Horstmann	Amethyst 7 & 10	2	1	4	6	5	7
	Coral	2	1	-	-	8	4
	Diadem	N	L	3	6	1	4
	Diamond	N	L	-	-	2	4
	Gem	2	1	6	9	4	7
	Leucite	2	1	8	4	3	6
Smiths	Centroller	N	L	1	2	3	4
Switchmaster	400 & 600	N	L	-	-	3	1
	805 & 900 & 9000	N	L	4	2	3	1
Thorn	Microtimer	N	L	7	4	6	3
Towerchron	T2002	N	L	-	-	HW	CH
	T2000 & T2003	N	L	HW OFF	CH OFF	HW ON	CH On