

ES2247B

# 2 Channel Multi-Purpose Programmer

## User Instructions

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# User Instructions

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# What is a Channel Programmer?

## **An explanation for householders**

Programmers allow you to set 'On' and 'Off' time periods. Some models switch the Central Heating and domestic Hot Water on and off at the same time, while others allow the domestic Hot Water and Central 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 Central 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 upon the changes between Winter and 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 Central Heating will not work if the room thermostat has switched the Central Heating off. And, if you have a Hot Water cylinder, the water heating will not work if the cylinder thermostat detects that the Central Hot Water has reached the correct temperature.

## **Introduction to the 2 Channel Programmer**

This programmer can automatically switch your Central Heating or Hot Water ON and OFF either 2 or 3 times a day, at whatever times you choose. Timekeeping is maintained through power interruptions by a replaceable internal battery (by Qualified Installer/Electrician only) designed to last for

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the lifetime of the programmer and 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 it if you want. During installation, the installer selects 24 hour, 5/2 day, or 7 day programming and either 2 or 3 on/off periods per day, via the Technical Settings (see installation instructions).

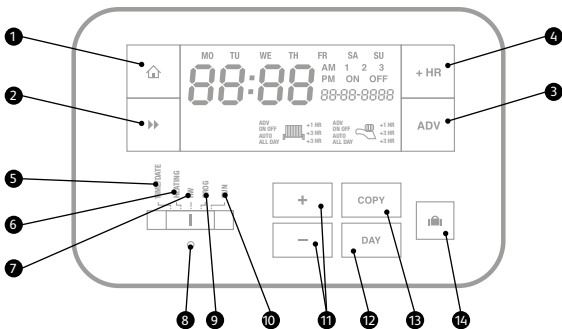
The large, easy to read display makes programming easy and the unit is designed to eliminate the possibility of accidental changes to your programme. Buttons normally visible, only affect your set programme temporarily. All buttons which can permanently change your programme are located behind the flip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

- The 24 hour programmer option runs the same programme every day.
- The 5/2 Day 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.
- Pumped System (PU) allows independent control of Central Heating and Hot Water.
- Gravity System (Gr) does not allow Central Heating without Hot Water but can provide Hot Water without Central Heating.

**N.B.** *When 5/2, 7 day or 24hr is selected for HW then the same will be applied to Heating and vice versa*

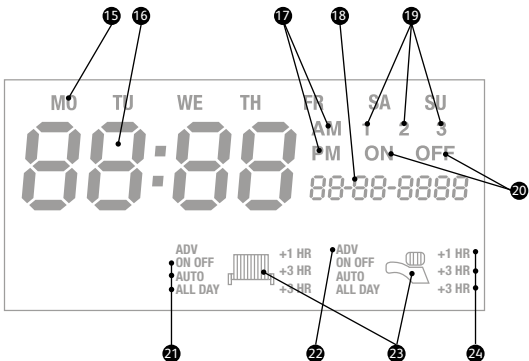
**IMPORTANT:** *This programmer is not suitable for the switching of devices greater than 6Amp rated. (e.g. Not suitable for use as an immersion timer)*

# Quick operating guide



- 1 **🏠 Home** (takes you back to home screen)
- 2 **▶▶ Next** (moves you to the next option within a function)
- 3 **ADV** Advance to the next programmed ON/OFF (**ADV**)
- 4 **+HR** Add up to 3 hours of extra Central Heating/Hot Water (**+HR**)
- 5 **DATE** Set Time and Date
- 6 **24HR 5/2 7 DAY** Set Programmer Option (24hr, 5/2, 7 Day) & Central Heating/Hot Water
- 7 **24HR 5/2 7 DAY** Set Programmer Option (24hr, 5/2, 7 Day) & Hot Water
- 8 **RST** Reset
- 9 **ON AUTO ALL DAY OFF** Set Operation Mode (**ON/AUTO/ALL DAY/OFF**)
- 10 **RUN** Runs the programme
- 11 **+/-** buttons for settings adjustment
- 12 **DAY** Moves between days when programming Central Heating/Hot Water (**DAY**)
- 13 **COPY** Copy function (**COPY**)
- 14 **HOLIDAY** Holiday Mode





- ⑮ Day of the week
- ⑯ Time Display
- ⑰ AM/PM
- ⑱ Date Display
- ⑲ Displays which ON/OFF period (**1/2/3**) is being set when programming Central Heating/Hot Water
- ⑳ Displays whether setting the ON time or OFF time when programming Central Heating/Hot Water (**ON/OFF**)
- ㉑ Operating Mode (**ON/OFF/AUTO/ALL DAY**)
- ㉒ Advanced temporary override is active (**ADV**)
- ㉓ Radiator/Tap symbol show that Central Heating/Hot Water is currently ON
- ㉔ + 1hr / 2hr / 3hr temporary override is active

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# Programming the unit

## The Factory Pre-Set Programme

This Channel Programmer has been designed to be simple to use, requiring minimal user intervention with a pre-programmed heating profile.

The pre-set heating times and temperatures will suit most people (*see table below*). To accept the factory pre-set settings, move the slider to **RUN** which will revert the programmer to Run Mode (the colon (:)) in the LCD display will begin to flash).

If the user changes from the factory-set programme and wants to return to it, pressing the reset button with a non metallic pointed tool will return the unit to the factory-set programme.

**N.B.** *Every time the reset is pressed, the time and date must be set again (page 17).*

Event		Std Time	Econ Time		Std Time	Econ Time
Week Days	1st ON	06:30	00:00	Weekends	07:30	00:00
	1st OFF	08:30	05:00		10:00	05:00
	2nd ON	12:00	13:00		12:00	13:00
	2nd OFF	12:00	16:00		12:00	16:00
	3rd ON	17:00	20:00		17:00	20:00
	3rd OFF	22:30	22:00		22:30	22:00

**N.B.** *If 2PU or 2GR is selected, then events 2nd ON and 2nd OFF are skipped*

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### 7 Day:

In 7 day setting, the pre-set settings are the same as 5/2 Day programme (Mon to Fri and Sat/Sun).

### 24 Hr:

In 24hr setting, the pre-set settings are the same as Mon to Fri of the 5/2 Day programme.

### Setting the Programmer Option (5/2, 7 day, 24hr)

1. Switch the slider to **HEATING**. Press either the **+/-** button to move between 7 day, 5/2 day or 24hr operation.

**5/2 Day operation** is shown by MO, TU, WE, TH, FR flashing (5 Day) and then SA, SU flashing (2 Day)


**7 Day operation** is shown by just one day flashing at a time

**24 hr operation** is shown by MO, TU, WE, TH, FR, SA, SU flashing at the same time.

2. Wait 15 seconds to automatically confirm or press the **Home** button. Move the slider to **RUN** to return to Run Mode.

### Setting the Central Heating Programme

1. Move the slider to **HEATING**. Choose between 5/2 day, 7 day or 24 hr programmer operation (*see above steps 1-2*).
2. Press the **Next ►►** button. Press the **Day** button until the desired day/block of days you want to programme is flashing.
3. The display shows the 1st ON time. Press **+/-** to set the time (10 minutes increments). Press the **Next ►►** button.
4. The display shows the 1st OFF time. Press **+/-** to set the time (10 minutes increments). Press the **Next ►►** button.

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5. The display will now show the 2nd ON time. Repeat steps 3-4 until all remaining ON/OFF periods have been set. On the last OFF period, press the **Day** button until the next desired day/block of days you want to programme is flashing.
  6. Repeat steps 3-5 until all days/block of days have been programmed. Wait 15 seconds to automatically confirm or press the  **Home** button. Move the slider to **RUN** to return to Run Mode.

**N.B.** *The copy button can be used in the 7 day setting to copy any chosen day to the next day (e.g Mon to Tues or Sat to Sun). Simply change the program for that day, then push copy repeatedly until all 7 days (if you so wished) have been changed.*

### **Setting the Hot Water Programme**

1. Move the slider to **HW**. Choose between 5/2, 7 day or 24 hr programmer operation (see page 7)
2. Press the **Next ▶▶** button. Press the **Day** button until the desired day/block of days you want to programme is flashing.
3. The display shows the 1st ON time. Press **+/-** to set the time (10 minutes increments). Press the **Next ▶▶** button.
4. The display shows the 1st OFF time. Press **+/-** to set the time (10 minutes increments). Press the **Next ▶▶** button.
5. The display will now show the 2nd ON time. Repeat steps 3-4 until all remaining ON/OFF periods have been set. On the last OFF period, press the **Day** button until the next desired day/block of days you want to programme is flashing.
6. Repeat steps 3-5 until all days/block of days have been

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programmed. Wait 15 seconds to automatically confirm or press the **Home** button. Move the slider to **RUN** to return to Run Mode.

**N.B.** *The copy button can be used in the 7 day setting to copy any chosen day to the next day (e.g Monday to Tuesday or Saturday to Sunday). Simply change the program for that day, then push copy repeatedly until all 7 days (if you so wished) have been changed.*

### Setting the Operation

1. Switch the slider to **PROG**. Press either the **+/-** button to move between ON/OFF/AUTO/ALL DAY. Press the **Next ▶▶** button to move between the 2 channels.

**ON:** Central Heating and Hot Water is **ON** continuously

**AUTO:** Central Heating and Hot Water will be switched **ON** and **OFF** in accordance with set programmes

**ALL DAY:** Central Heating and Hot Water will switch **ON** at the first **ON** and switch **OFF** at last **OFF**

**OFF:** Central Heating and Hot Water will be permanently **OFF**

2. Wait 15 seconds to automatically confirm or press the **Home** button. Move the slider to **RUN** to return to Run Mode.

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# Operating the unit

## Temporary Manual Overrides

### The Advance Function

The **ADVANCE** function allows the user to move to the next ON/OFF programme for a “one off” event, without having to change the programme or use the ON or OFF buttons.

**N.B.** *The ADVANCE function is only available when the programme is in AUTO or ALL DAY operating modes and the slider must be switched to RUN.*

### To Advance Central Heating

1. Press the **Next ►►** button until the radiator symbol is displayed. Press the **ADV** button. This will turn the Central Heating ON if it is in an OFF period and OFF if it is in an ON period. The word **ADV** will appear to the left hand side of the radiator symbol.
2. It will stay in this state until either the button is pressed again, or until a programmed ON/OFF period commences.

### To Advance Hot Water

1. Press the **Next ►►** button until the tap symbol is displayed. Press the **ADV** button. This will turn the Hot Water ON if it is in an OFF period and OFF if it is in an ON period. The word **ADV** will appear to the left hand side of the tap symbol.
2. It will stay in this state until either the **ADV** button is pressed again, or until a programmed ON/OFF period commences.

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## The +HR Boost Function

The **+HR** function allows the user to have up to 3 hours of extra Central Heating or Hot Water, without having to change the programme.

**N.B.** *The +HR function is only available when the programme is in AUTO, ALL DAY or OFF operating modes and the slider must be switched to RUN. If the programmer is in AUTO or ALL DAY mode when the +HR button is pressed and the resulting time of the boost overlaps a START/ON time, the boost will disengage.*

### To +HR Boost Central Heating

1. Press the **Next ►►** until the radiator symbol is displayed. Press the **+HR** button.
2. One press of the button will give one extra hour of Central Heating; two presses of the button will give two extra hours; three presses of the button will give the maximum three extra hours. Pressing it again will switch off the **+HR** function.
3. The +1HR, +2HR or +3HR status will appear on the right hand side of the radiator symbol.




### To +HR Boost Hot Water

1. Press the **Next ►►** button until the tap symbol is displayed. Press the **+HR** button.
2. One press of the button will give one extra hour of Hot Water; two presses of the button will give two extra hours; three presses of the button will give the maximum three extra hours. Pressing it again will switch off the **+HR** function.
3. The +1HR, +2HR or +3HR status will appear on the right hand side of the tap symbol.

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## Holiday Mode

Holiday Mode saves energy by letting you reduce the temperature for 1 to 99 days while you are away from home, resuming normal operation on your return.

1. Press  to enter Holiday Mode and the screen will display d:1.
2. Press **+/-** buttons to select the number of days you would like the holiday mode to run for (between 1-99 days).
3. Press the  **Home** button to confirm. The system will now turn OFF for the number of days chosen. The number of days will alternate with the time symbol on display and the number of days will count down.
4. Once the countdown has finished, the programmer will return to normal operation. It may be advisable to set the Holiday Mode 1 day less so the house is back up to temperature for your return.
5. To cancel the Holiday Mode, press  the button to revert back to run mode.



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# Basic settings

## Setting the Time and Date


The time and date are factory set and changes between summer and winter time are handled automatically by the unit.

1. Switch the slider to **TIME/DATE**.
2. The hour symbols will flash, use the **+/-** buttons to adjust.
3. Press the **Next ►►** button and the minute symbols will flash, use the **+/-** buttons to adjust.
4. Press the **Next ►►** button and the day date will flash, use the **+/-** buttons to adjust the day.
5. Press the **Next ►►** button and the month date will flash, use the **+/-** buttons to adjust the month.
6. Press the **Next ►►** button and the year date will flash, use the **+/-** buttons to adjust the year.

## Setting the Backlight

The backlight can either be set permanently ON or OFF. The programmer backlight is pre-set to be permanently OFF. When the backlight is permanently OFF, the backlight will turn ON for 15 seconds when **+** or **-** button is pressed, then turn OFF automatically.

To change setting to permanently ON, move the slider to **TIME/DATE**. Press the **Next ►►** button repeatedly until **Lit** is displayed. Press **+** or **-** to turn backlight ON or OFF. Press the **Next ►►** button or wait for 15 seconds to automatically confirm and return to Run Mode.

**N.B.** Do not use Advance or +HR Boost Button to activate the backlight as it may engage the Advance or +HR facility and turn on the boiler. Only use the  **Home** button.

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## Resetting the Unit

Press the reset button with a non-metallic pointed tool to reset the unit. This will restore the built in programme and also reset the time to 12:00pm and the date to 01/01/2000. To set the time and date, (*please refer to page 17*).

**N.B.** *As a safety feature after resetting the unit will be in OFF operating mode. Reselect your required operating mode (page 11-13). 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.*

## 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, switch the slider to **RUN** to return to Run mode.

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We are continuously developing our products to bring you the very latest in energy saving technology and simplicity. However, should you have any questions setting up your controls please email us at **[sales@esicontrols.co.uk](mailto:sales@esicontrols.co.uk)**.

**WARNING: Interference with sealed parts renders the guarantee void.**

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