

ES1247B16A

16 Amp 1 Channel Multi Purpose Programmer

User Instructions



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Introduction to the 1 Channel Programmer

As with all ESI's range of programmers, the ES124716A 16 Amp 1 Channel Time switch, is featured packed, offering flexibility and reliability making it ideal for use with immersion heaters and electric boilers.

It has been designed with the homeowner and simplicity in mind, with an easy-to-use slider to operate the permanent settings underneath the fascia, whilst the temporary settings are easily accessible and clear with easy-to-use function buttons, simple overrides and a clear backlit LCD display. The programmer can be configured for 24 hour, 5/2 day or 7 day operation with pre-set programs for each mode and the Holiday mode provides a simple means of adjusting the heating/hot water quickly.

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 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 fascia.

Although the ES124716A comes factory set as a standard 1 channel programmer, there also are a number of Installer set options and if one of these options has been chosen during installation then the programmer becomes a multifunctional Power Saver. If the Power saver option is chosen then this may disable a number features that are set as standard.

Installer Set Programs:

Programme / Functions	Prog 0	Prog 1	Prog2	Prog 3
Set Time / Date	Yes	Yes	Yes	Yes
Set Programme Times	Yes	No	No	No
Boost 1/2/3 Hour	Yes	Yes	Yes	No
Advance	Yes	No	No	No
Holiday	Yes	Yes	Yes	Yes
Run Programme	Yes	No	Yes	Yes
Change Auto/On / Off / Run	Yes	No	No	No

Program 0: Functions as a standard 1 Channel Programmer

Program 1: When the ESI124716A has been set to program 1, the time switch becomes a simple to use Electronic Boost controller with a single button operation, offering three user-selectable boost periods of 1 hour, 2 hour or 3 hours and all other functions have been disabled.

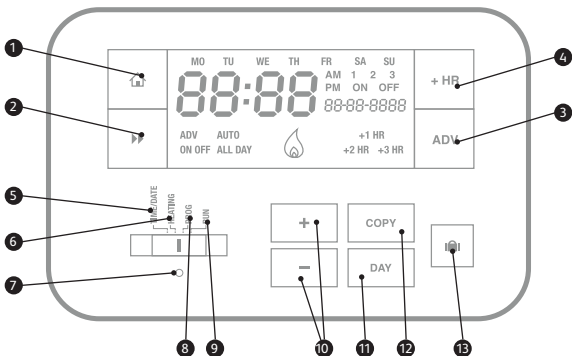
Program 2: If program 2 is selected, then this allows the user to boost the power as above, but also allows the installer to set On and Off times. Once the On/Offs have been set, all other functions apart for the standard 1, 2 or 3 hour boost, all other functions are disabled.

Program 3: Program 3 allows the installer to set the On and Off times and all other functions including the boost, will be disabled.

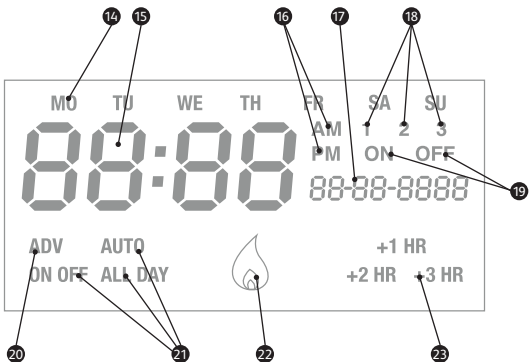
N.B: *If the reset is pushed at any time, the programmer will default to Program 1, which is boost only. If this happens, then the installer code will be needed to unlock the other features.*

IMPORTANT: These settings should only be changed by a qualified person. Contact your installer. This programme is not suitable for the switching of devices greater than 16Amp rated.

Quick operating guide



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



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

Programming the unit

(Only when in program 0)

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).

N.B. *Every time the reset is pressed, the programmer will default to prog1 boost only.*

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*

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/Hot Water 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.
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.

Setting the Operation


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

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

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

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

OFF: Central Heating/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.

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/Hot Water

1. Press the **ADV** button. This will turn the Central Heating/ 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 LCD display.
2. It will stay in this state until either the **ADV** button is pressed again, or until a programmed ON/OFF period commences.

The +HR Boost Function

The **+HR** function allows the user to have up to 3 hours of extra Central Heating/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/Hot Water

1. Press the **+HR** button.
2. One press of the button will give one extra hour of Central Heating/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 LCD display.

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.

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.
7. Press the **Next ►►** button or wait for 15 seconds to automatically confirm and return to Run Mode.

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.

Resetting the Unit

Press the reset button with a non-metallic pointed tool to reset the unit.

N.B: If the reset is pushed at any time, the programmer will default to Program 1, which is boost only. If this happens, then the installer code will be needed to unlock the other features.

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.

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** or for technical queries call us on our dedicated technical helpline **07539 117468**.

WARNING: Interference with sealed parts renders the guarantee void.

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



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