R37^{v2}





3 Zone Programmer

Installation and Operating Guide

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P01	Setting	the Date,	Time	and t

he Programming Mode

24 24 25

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3 Zone Programmer

Installation Instructions

Factory Default Settings



Program:5/2DOperating Mode:AutoBacklight:OnPin Lock:OffKeypad Lock:OffService Interval:Off

Frost Protection: Off Zone Title: HOT WATER

HEATING 1 HEATING 2

Specifications

Switch Output: 230Vac SPDT

Power Supply: 230Vac

Ambient Temperature: 0 ... 50°C

Dimensions: 161 x 100 x 31 mm

Contact Rating: 3(1)A 230Vac

Program Memory 5 Years
Temperature Sensor: NTC 100K

Backlight: White

IP Rating: IP20

Battery: 3VDC Lithium

LIR2032 & CR2032

Backplate:

Pollution degree:

Software Class:

British System Standard 2 (Resistance to voltage

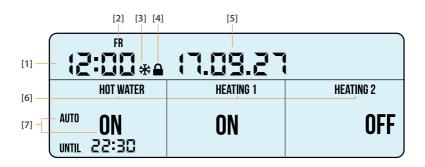
surge 2000V; as per

EN60730)

Class A

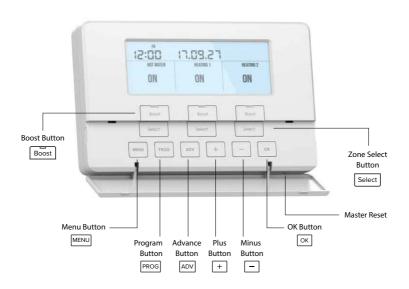
LCD Display

- [1] Displays current time.
- [2] Displays current day of the week.
- [3] Displays when frost protection is activated.
- [4] Displays when keypad is locked.
- [5] Displays current date.
- [6] Displays zone title.
- [7] Displays current mode.

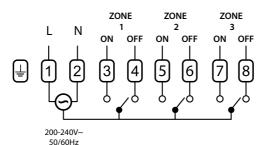


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Button Description



Wiring Diagram

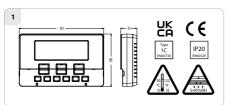


Terminal Connections

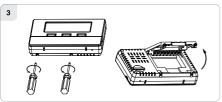
<u>+</u>	Earth
1	Live
2	Neutral
3	Zone 1 ON - N/O Normally open connection
4	Zone 1 OFF - N/C Normally closed connection
5	Zone 2 ON - N/O Normally open connection
6	Zone 2 OFF - N/C Normally closed connection
7	Zone 3 ON - N/O Normally open connection
8	Zone 3 OFF - N/C Normally closed connection

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Mounting & Installation













Mounting & Installation continued

Caution!

- Installation and connection should only be carried out by a qualified person.
- Only qualified electricians or authorised service staff are permitted to open the programmer.
- If the programmer is used in a way not specified by the manufacturer, its safety may be impaired.
- Prior to setting the programmer, it is necessary to complete all required settings described in this section.
- Before commencing installation, the programmer must be first disconnected from the mains.

This programmer can be surface mounted or mounted to a recessed conduit box.

- 1) Remove the programmer from its packaging.
- 2) Choose a mounting location for the programmer:
 - Mount the programmer 1.5 metres above the floor level.
 - Prevent direct exposure to sunlight or other heating / cooling sources.
- Use a philips screwdriver to loosen the screws of the backplate on the bottom of the programmer.
 The programmer is lifted upwards from the bottom and removed from the backplate.
 (See Diagram 3 on Page 7)
- 4) Screw the backplate onto a recessed conduit box or directly to the surface.
- 5) Wire the backplate as per the wiring diagram on page 6.
- 6) Sit the programmer onto the backplate making sure the programmer pins and the backplate contacts are making a sound connection, push the programmer flush to the surface and tighten the screws of the backplate from the bottom. (See Diagram 6 on Page 7)

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3 Zone Programmer

Operating Instructions

Quick introduction to your R37^{V2} programmer:

The $R37^{v_2}$ programmer will be used to control three separate zones in your central heating system.

Each zone can be independently operated and programmed to suit your needs. Each zone has up to three daily heating programs called P1, P2 and P3. See Page 13 for instructions on how to adjust the program settings.

On the LCD screen of your programmer you will see three separate sections, one to represent each zone.

Within these sections you can see what mode the zone is currently in.

When in the AUTO mode, it will show when the zone is next programmed to be switched ON or OFF.

For 'Mode Selection' please see page 11 for further explanation.

When the zone is ON, you will see the red LED for that zone light up. This indicates that power is being sent from the programmer on this zone.

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Mode Selection



) AUTO

There are four modes available for selection.

AUTO The zone operates up to three 'ON/OFF' periods per day (P1, P2, P3).

ALL DAY The zone operates one 'ON/OFF' period per day. This operates from the first 'ON' time to the third 'OFF' time.

ON The zone is permanently ON.

OFF The zone is permanently OFF.

Press Select to change between AUTO, ALL DAY, ON & OFF.

The current mode will be shown on the screen under the specific zone.

The Select are found under the front cover. Each zone has its own Select

Programming Modes

This programmer has the following programming modes.

5/2 Day mode Programming Monday to Friday as one block and

Saturday and Sunday as a 2nd block.

7 Day mode Programming all 7 days individually.

24 Hour mode Programming all 7 days as one block.

Factory Program Settings (E) 5/2d



5/2 Day						
	P1 0N	P1 OFF	P2 0N	P2 OFF	P3 0N	P3 OFF
Mon-Fri	06:30	08:30	12:00	12:00	16:30	22:30
Sat-Sun	07:30	10:00	12:00	12:00	17:00	23:00
7 Day						
	P1 0N	P1 OFF	P2 0N	P2 OFF	P3 0N	P3 OFF
All 7 days	06:30	08:30	12:00	12:00	16:30	22:30
24 Hour						
	P1 ON	P1 OFF	P2 0N	P2 OFF	P3 0N	P3 OFF
Everyday	06:30	08:30	12:00	12:00	16:30	22:30

Adjust the Program Setting in 5/2 Day Mode

Press PROG.

Programming for Monday to Friday for Zone 1 is now selected.

To change programming for Zone 2 or Zone 3, press the appropriate | Select

Press + and - to adjust the P1 ON time.

Press OK

Press + and - to adjust the P1 OFF time.

Press OK

Press OK

Repeat this process to adjust P2 and P3 times.

Programming for Saturday to Sunday is now selected.

Press + and - to adjust the P1 ON time.

Press OK

Press OK

Press OK

Repeat this process to adjust P2 and P3 times.

Press MENU to return to normal operation.

While in programming mode, pressing $\lfloor \frac{\text{Select}}{\text{Select}} \rfloor$ will jump to the next day (block of days) without changing the program.

Note:

- 1. To change from 5/2d to 7D or 24H programming, refer to page 16, Menu P01.
- 2. If you don't wish to use one or more of the daily programs then simply set the start time and end time to be identical. For example, if P2 is set to start at 12:00 and end at 12:00 the programmer will simply ignore this program and proceed to the next switching time.

Reviewing the Program Settings

Press PROG

Press ok to scroll through the periods for the individual day (block of days).

Press Select to jump to the next day (block of days).

Press MENU to return to normal operation.

You must press the specific Select to review the schedule for that zone.

Boost Function

Each zone can be boosted for 30 minutes, 1, 2 or 3 hours while the zone is in the AUTO, ALL DAY & OFF mode.

Press Boost 1, 2, 3 or 4 times, to apply the desired BOOST period to the Zone.

When a Boost is pressed there is a 5 second delay before activation where 'BOOST' will flash on the screen, this gives the user the time to select the desired BOOST period.

To cancel a BOOST, press the respective Boost again.

When a BOOST period has ended or has been cancelled, the Zone will return to the mode that was previously active prior to the BOOST.

Note: A BOOST cannot be applied while in the ON or Holiday Mode.

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Advance Function

When a zone is in the AUTO or ALLDAY mode, the Advance function allows the user to bring the zone or zones forward to the next switching time.

If the zone is currently timed to be OFF and ADV is pressed, the zone will be switched ON until the end of the next switching time. If the zone is currently timed to be ON and ADV is pressed, the zone will be switched OFF until the start of the next switching time.

Press ADV

Zone 1, Zone 2, Zone 3 and Zone 4 will begin to flash.

Press the appropriate Select.

The zone will display 'ADVANCE ON' or 'ADVANCE OFF' until the end of the next switching time.

Zone 1 will stop flashing and enter Advance mode.

Zone 2 and Zone 3 will remain flashing.

Repeat this process with Zone 2 and Zone 3 if required.

Press OK

To cancel an ADVANCE, press the appropriate Select

When an ADVANCE period has ended or has been cancelled, the zone will return to the mode that was previously active prior to the ADVANCE.

Menu

This menu allows the user to adjust additional functions.

To access the menu, press MENU

l P01 Setting the Date, Time and the Programming Mode b DST ON



Press OK

Press OK

Press OK

Press OK

Press OK

Press OK



Press MENU, 'P01 tlnE' will appear on the screen.

Press | OK |, the year will begin to flash.

Press | + | and | - | to adjust the year.

Press + |and| - |to adjust the month.

Press | + | and | - | to adjust the day. Press | + | and | - | to adjust the hour.

+ and - to adjust the minute.

and - to adjust from 5/2d to 7d or 24h mode.

+ and - to turn DST (Day Light Saving time) On or Off.

and the programmer will return to normal operation.

Note:

Please see page 12 for descriptions of Programming Modes.

This menu allows the user to switch off their heating system by defining a start and end date.				
year will begin to flash				
Press OK .				
Press OK .				
Press OK .				
Press OK .				
pegin to flash.				
Press OK .				
Press OK .				
Press OK .				
Press OK .				
To cancel the HOLIDAY, press OK .				

The programmer will return to the normal operation when a holiday has finished or been cancelled.

Menu continued

P03 Frost Protection (E) OFF



This menu allows the user to activate the frost protection between a range of 5°C and 20°C.

Frost protection is default set to OFF. Press MENU, 'P01' will appear on the screen. Press + until 'P03 FrOST' appears on the screen. Press | OK |, 'OFF' will appear on the screen. Press + to select 'ON'. Press OK '5°C' will flash on the screen. Press + and - to select your desired frost protection temperature. Press OK Press MENU and the programmer will return to normal operation.

The Frost symbol * will display on the screen if the user activates it in the menu.

If the ambient room temperature drops below the desired frost protection temperature, all zones of the programmer will activate and the frost symbol will flash until the frost protection temperature has been achieved.

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P04 Zone Title

This menu allows the user to select different titles for each zone.

The options are:

DEFAULT OPTIONS	RENAME OPTIONS
HOT WATER	ZONE 1
HEATING 1	ZONE 2
HEATING 2	ZONE 3

Press MENU, 'P01' will appear on the screen.

Press + until 'P04' appears on the screen.

Press OK, 'HOT WATER' will flash on the screen.

Press + to change from 'HOT WATER' to 'ZONE 1'. Press OK . 'Heating 1' will flash on the screen.

Press + to change from 'HEATING 1' to 'ZONE 2'. Press K . 'Heating 2' will flash on the screen.

Press + to change from 'HEATING 2' to 'ZONE 3'.

Press MENU and the programmer will return to normal operation.

P05 PIN Menu continued

This function allows the user to put a PIN lock on the programmer. The PIN lock will reduce the functionality of the programmer.

The user will have two options to choose from:

01: All buttons will be disabled.

[145111] (5 5 5 4 AU

02: Functionality will be reduced to a 30 minutes and 1 hour boost. The only modes available are the AUTO & OFF.

Set up the PIN

Press MENU , 'P01' will appear on the screen.
Press + until 'P05 Pln' appears on the screen. Press OK , 'OFF' will appear on the screen.
Press + to change from OFF to ON . Press OK . '01' will be appear on the screen.
Press + and - to choose between options 01 and 02.
Press OK button. 'COOC' will flash on the screen. Press + and - to set the value from 0 to 9 for
the first digit. Press OK to move to the next PIN digit. When the last digit of the PIN is set, Press OK.
'VErIFy' is displayed with ' DDDD '. Press + and - to set the value from 0 to 9 for the first digit.
${\sf Press} \ \ {\sf OK} \ \ {\sf to} \ \ {\sf move} \ \ {\sf to} \ \ {\sf the} \ \ {\sf PIN} \ \ {\sf is} \ \ {\sf set}, \\ {\sf Press} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
verified, and the PIN lock is activated. If the verification PIN is entered incorrectly the user is brought
back to the menu. When the PIN lock is active the Lock symbol $\stackrel{\triangle}{\blacksquare}$ will flash every second on the screen.
When the programmer is PIN locked, Pressing the MENU will take the user to the PIN unlock screen.

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To Unlock the PIN	
Press MENU , 'UNLOCK' will appear on the screen. ' 🏻 🛱 🛱 Will flash on the sc	reen.
Press + and - to set the value from 0 to 9 for the first digit.	
Press OK to move to the next PIN digit.	
When the last digit of the PIN is set.	Press OK .
The PIN is now unlocked.	
f a PIN has been unlocked on the programmer, it will automatically reactivate	e if there is no button
pressed for 2 minutes.	
To Deactivate the PIN	
When the PIN is unlocked (see above instructions)	
Press MENU, ' P01 ' will appear on the screen.	
Press + until ' P05 PIn ' appears on the screen.	
Press OK, 'ON' will appear on the screen.	
Press + or - to select 'OFF'.	Press OK .
TTTT will flash on the screen Enter the DIN	Proce OK

The PIN is now disabled.

Press MENU to return to normal operation or it will automatically exit after 20 seconds.

Copy Function

Copy function can only be used when the 7d mode is selected. (See page 16 to select 7d mode)

Press PROG to program the ON and OFF periods for the day for the week you want to copy.

Do not press OK on the P3 OFF time, leave this period flashing.

Press ADV, 'COPY' will appear on the screen, with the next day of the week flashing.

To add the desired schedule to this day press ______.

To skip this day press ____.

Press OK when the schedule has been applied to the desired days.

Ensure the zone is in the 'Auto' mode for this schedule to operate accordingly.

Repeat this process for Zone 2 or Zone 3 if required.

Note:

You cannot copy schedules from one zone to another, E.g. Copying Zone 1 schedule to Zone 2 is not possible.

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Backlight Mode Selection (© ON

There are 3 backlight settings available for selection:

AUTO Backlight stays on for 10 seconds when any button is pressed.

ON Backlight is permanently On.

OFF Backlight is permanently Off.

To adjust the backlight press and hold ok for 10 seconds.

'Auto' appears on the screen.

Press + or - to change the mode between Auto, On and Off.

Press OK to confirm selection and to return to normal operation.

Locking the Keypad

To lock the programmer, press and hold + and - together for 10 seconds.

 $\ensuremath{\pmb{\triangle}}$ will appear on the screen. The buttons are now disabled.

To unlock the programmer, press and hold + and - for 10 seconds.

• will disappear from the screen. The buttons are now enabled.

Resetting the Programmer

To reset the programmer to factory settings:

Press MENU.

'P01' will appear on the screen.

Press + until 'P06 rESEt' appears on the screen.

Press OK to select.

'nO' will begin to flash.

Press + , to change from 'nO' to 'YES'.

Press OK to confirm.

The programmer will restart and revert to its factory defined settings.

The time and date will not be reset.

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Master Reset

To master reset the programmer to factory settings, locate the master reset button on the right-hand side underneath the programmer. (see page 5)

Press the Master Reset button and release it.

The screen will go blank and reboot.

The programmer will restart and revert to its factory defined settings.

Service Interval 6 OFF

The service interval gives the installer the ability to put an annual countdown timer on the programmer. When the Service Interval is activated 'SErv' will appear on the screen which will alert the user that their annual boiler service is due.

For details on how to enable or disable the Service Interval, please contact customer service.

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