

# **EPH CONTROLS R47V2 4 Zone Programmer Installation Guide**

Home » EPH CONTROLS » EPH CONTROLS R47V2 4 Zone Programmer Installation Guide 🖫



R47 V2
4 Zone Programmer
Installation and Operating Guide



### Contents

- 1 Installation
- Instructions
- **2 Operating Instructions**
- 3 Documents /
- **Resources** 
  - 3.1 References

### **Installation Instructions**

# Factory Default Settings

Program: 5/2D
Backlight: On
Keypad Lock: Off
Frost Protection: Off
Operating Mode: Auto

Pin Lock: Off

Service Interval: Off

Zone Title: ZONE 1, ZONE 2, ZONE 3 & ZONE 4

**Specifications** 

Switch Output: SPST Volt Free

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:** British System Standard

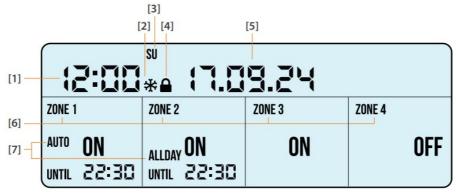
Pollution degree: 2 (Resistance to voltage surge 2000V; as per EN60730)

Software Class: Class A

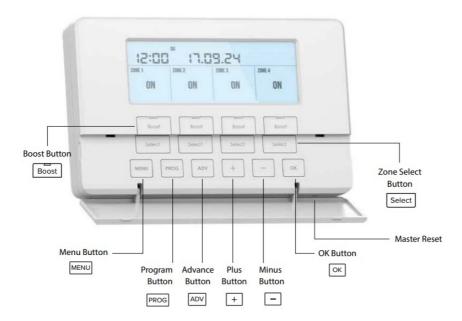
**LCD Display** 

[1] Displays current time.

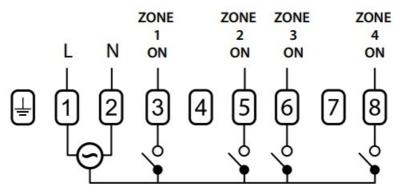
- [2] Displays when frost protection is activated.
- [3] Displays current day of the week.
- [4] Displays when keypad is locked.
- [5] Displays current date.
- [6] Displays zone title.
- [7] Displays current mode.



**Button Description** 



## **Wiring Diagram**

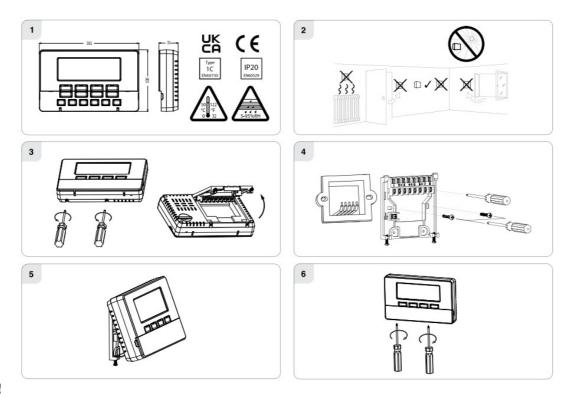


200-240V~

### **Terminal Connections**

| <u></u> | Earth                                    |
|---------|--|
| 1       | Live                                     |
| 2       | Neutral                                  |
| 3       | Zone 1 ON – N/O Normally open connection |
| 4       | Zone 2 ON – N/O Normally open connection |
| 5       | Zone 3 ON – N/O Normally open connection |
| 6       | Zone 4 ON – N/O Normally open connection |

## **Mounting & Installation**



### 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.
- Usea 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)

### **Operating Instructions**

### Quick introduction to your R47v2 programmer:

The R47v2 programmer will be used to control four 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 four 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.

# 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



## **)** 5/20

| 5/2 Day    |       |        |       |        |       |        |
|------------|-------|--------|-------|--------|-------|--------|
| <u>(h)</u> | P1 ON | P1 OFF | P2 ON | P2 OFF | P3 ON | 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 ON | P1 OFF | P2 ON | P2 OFF | P3 ON | P3 OFF |
| All 7 days | 06:30 | 08:30  | 12:00 | 12:00  | 16:30 | 22:30  |

| 24 Hour  |       |        |       |        |       |        |
|----------|-------|--------|-------|--------|-------|--------|
|          | P1 ON | P1 OFF | P2 ON | P2 OFF | P3 ON | 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, Zone 3 or Zone 4 press the appropriate Select.

| Press + and - to adjust the P1 ON time.  | Press OK.             |
|--|-----------------------|
| Press + and - to adjust the P1 OFF time.   | 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 + and - to adjust the P1 OFF time.   | Press OK.             |
| Repeat this process to adjust P2 and P3 times.  Press to return to normal operation.  While in programming mode, pressing select will jump to the next day (block of days) wirprogram.  Note:  | thout changing the    |
| <ol> <li>To change from 5/2d to 7D or 24H programming, refer to page 16, Menu P01.</li> <li>If you don't wish to use one or more of the daily programs then simply set the star identical. For example, if P2 is set to start at 12:00 and end at 12:00 the program program and proceed to the next switching time.</li> </ol> |                       |
| Reviewing the Program Settings  Press PROG.  |                       |
| Press to scroll through the periods for the individual day (block of days).  |                       |
| Press Select to jump to the next day (block of days).  |                       |
| Press to return to normal operation.   |                       |
| You must press the specific Select to review the schedule for that zone. <b>Boost Function</b>   |                       |
| 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.

### **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.

Zone1, Zone 2, Zone 3 and Zone 4 will begin to flash.

Press the appropriate Select.

| To access the menu, press MENU.   |                      |  |  |  |
|---|----------------------|--|--|--|
| P01 Setting the Date, Time and the Programming Mode DST ON  |                      |  |  |  |
| To Tocking the Bate, Time and the Programming Mode — Bot ON   |                      |  |  |  |
| Press MENU, 'P01 tlnE' will appear on the screen.   |                      |  |  |  |
| Press OK, the year will begin to flash.   |                      |  |  |  |
| Press + and - to adjust the year.   | Press OK.            |  |  |  |
| Press + and - to adjust the month.  | Press OK.            |  |  |  |
| Press + and - to adjust the day.  | Press OK.            |  |  |  |
| Press + and - to adjust the hour.   | Press OK.            |  |  |  |
| Press + and - to adjust the minute.   | Press OK.            |  |  |  |
| Press + and - to adjust from 5/2d to 7d or 24h mode.  | Press OK.            |  |  |  |
| Press + and - to turn DST (Day Light Saving time) On or Off.  |                      |  |  |  |
| Press MENU and the programmer will return to normal operation.  |                      |  |  |  |
|   |                      |  |  |  |
| Note:   |                      |  |  |  |
| Please see page 12 for descriptions of Programming Modes.   |                      |  |  |  |
| <b>P02 Holiday Mode</b> This menu allows the user to switch off their heating system by defining a start and en | d date.              |  |  |  |
| Press MENU, 'P01' will appear on the screen.  |                      |  |  |  |
| Press + until 'P02 HOL' will appears on the screen.   |                      |  |  |  |
| Press OK , 'HOLIDAY FROM', the date and time will appear on the screen. The year                                | will begin to flash. |  |  |  |
|   | · ·                  |  |  |  |
| Press + and - to adjust the year.   | Press OK.            |  |  |  |
| Press + and - to adjust the month.  | Press OK.            |  |  |  |
| Press + and to adjust the day.  | Press OK.            |  |  |  |
| Press + and to adjust the hour.   | Press OK.            |  |  |  |
| 1 1000 — and — to adjust the floar.   |                      |  |  |  |

'HOLIDAY TO' and the date and time will appear on the screen. The year will begin to flash.

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

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

Zone 1 will stop flashing and enter Advance mode. Zone 2, Zone 3 and Zone 4 will remain flashing.

To cancel an ADVANCE, press the appropriate Select

This menu allows the user to adjust additional functions.

Press OK

Menu

active prior to the ADVANCE.

Repeat this process with Zone 2, Zone 3 & Zone 4 if required.

| Press + and - to adjust the year.  | Press OK.  |
|--|--|
| Press + and - to adjust the month.   | Press OK.  |
| Press + and - to adjust the day.   | Press OK.  |
| Press + and - to adjust the hour.  | Press OK.  |
| ,  |  |
| The programmer will now be switched off during this selected period.   |  |
| To cancel the HOLIDAY, press OK.   |  |
| The programmer will return to the normal operation when a holiday has finished or be   | en cancelled.  |
| P03 Frost Protection 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 (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 + and - to select your desired frost protection temperature.   | Press OK.  |
| Press MENU and the programmer will return to normal operation.   | Press OK.  |
| Press and the programmer will return to normal operation.  The Frost symbol will display on the screen if the user activates it in the menu.   | riess  |
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| Press 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 programmer will activate and the frost symbol will flash until the frost protection temperature programmer user and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer until activate and the frost symbol will flash until the frost protection temperature programmer allows the user to put a PIN lock on the programmer. The PIN lock will reduce the functionality of the programmer.  Set up the PIN  Press MENU, 'P01' will appear on the screen.  | , all zones of the   |
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| Press 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 programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer. The PIN lock will reduce the functionality of the programmer.  Set up the PIN  Press MENU , 'P01' will appear on the screen.  Press OK , 'OFF' will appear on the screen.  Press + to change from OFF to ON. Press OK . '0000' will flash on the screen.  Press + and - to set the value from 0 to 9 for the first digit. Press to move  | to the next PIN digit.   |
| 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 programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer.  The PIN lock will reduce the functionality of the programmer.  Set up the PIN  Press MENU , 'P01' will appear on the screen.  Press until 'P04 PIn' appears on the screen.  Press ok occurrence of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functionality of the programmer.  The PIN lock will reduce the functio | to the next PIN digit.   |
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| Press 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 programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the frost symbol will flash until the frost protection temperature programmer will activate and the prost protection temperature programmer.  Set up the PIN  Press will appear on the screen.  Press ok of the prost protection temperature programmer.  Press will activate and the prost protection temperature programmer.  Set up the PIN  Press will activate and the frost symbol will flash until the frost protection temperature programmer.  Set up the PIN  Press will activate and the prost protection temperature programmer.  Set up the PIN  Press will activate and the grow on the screen.  Press will activate and the programmer.  Set up the PIN  Press will activate and the grow on the screen.  Press will activate and the grow on the screen.  Press will activate and the programmer.  Set up the PIN  The PIN is now verified and the PIN will appear on the screen.  Press will activate and the grow on the screen.  Press will activate and the grow on the screen.  Press will activate and the grow on the screen.  Press will activate and the grow on the screen.  Press will activate and the grow on the screen.  Press will activate a | to the next PIN digit.  to the next PIN digit.  to the sactivated. |

When the PIN lock is enabled, BOOST periods are reduced to 30 minute and 1 hour periods. When the PIN lock is enabled, Mode Selections are reduced to Auto and OFF.

| P04 PIN To Unlock the PIN  |                               |
|--|-------------------------------|
| Press MENU, 'UNLOCK' will appear on the screen. '0000' 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.                     |
| The PIN is now unlocked. If a PIN has been unlocked on the programmer, it will automatically reactivate if there minutes.  To Deactivate the PIN When the PIN is unlocked (see above instructions)  Press MENU, 'P01' will appear on the screen. | is no button pressed for 2    |
| Press + until 'P05 Pln' appears on the screen.   |                               |
| Press OK, 'ON' will appear on the screen.  |                               |
|  |                               |
| Press + or - to select 'OFF  | Press OK.                     |
| '0000' will flash on the screen. Enter the PIN.  | Press OK.                     |
|  | <u> </u>                      |
| 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  | ·                             |
| Press PROG to program the ON and OFF periods for the day for the week you want to Do not press OK on the P3 OFF time, leave this period flashing.  | copy.                         |
| 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 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, Zone 3 or Zone 4 if required.   |                               |
| Note:  |                               |
| You cannot copy schedules from one zone to another, E.g. Copying Zone 1 schedule   | to Zone 2 is not possible.    |
| Backlight Mode Selection ON  |                               |
| There are 3 backlight settings available for selection:  |                               |
| <b>AUTO</b> Backlight stays on for 10 seconds when any button is pressed. <b>ON</b> Backlight is permanently On.   |                               |
| OFF Backlight is permanently Off.  |                               |
| To adjust the backlight press and hold or 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. • w  | ill appear on the assess. The |
| buttons are now disabled.  | ııı appear on the screen. The |

| To unlock the programmer, press and hold + and - for 10 second buttons are now enabled.                       | s. $oldsymbol{oldsymbol{eta}}$ will disappear from the screen. The |
|---|--|
| Resetting the Programmer  |  |
| To reset the programmer to factory settings:  |  |
| Press MENU.   |  |
| 'P01' will appear on the screen.  |  |
| Press + until 'P05 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.  |  |
| Master Reset  |  |
| To master reset the programmer to factory settings, locate the master re                                      | eset 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 OFF  |  |
| The service interval gives the installer the ability to put an annual count                                   | down timer on the programmer. When the                             |
| Service Interval is activated 'SErv' will appear on the screen which will a                                   |  |
| is due.   |  |
| For details on how to enable or disable the Service Interval, please con                                      | tact customer service.   |
|   |  |
| EPH Controls IE   | EPH Controls UK  |
| technical@ephcontrols.com   | technical@ephcontrols.co.uk  |
| www.ephcontrols.com/contact-us  | www.ephcontrols.co.uk/contact-us                                   |
| +353 21 471 8440  | +44 1933 322 072   |
| Cork, T12 W665  | Harrow, HA1 1BD  |
|   |  |
|   |  |
| 54 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 5-261  |
| 7796-44Ea#Ea#   |  |
|   | 1324-6   |
|   |  |
|   |  |
| Second office of the  |  |



http://www.ephcontrols.co.uk

http://WWW.ephcontrols.com

### **Documents / Resources**



**EPH CONTROLS R47V2 4 Zone Programmer** [pdf] Installation Guide R47V2, R47V2 4 Zone Programmer, 4 Zone Programmer, Programmer

### References

- EM Contact Us EPH Controls
- EM Contact Us EPH Controls
- User Manual

#### Manuals+, Privacy Policy

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