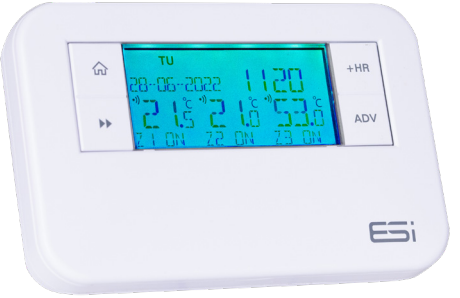
ES3247BRF

3 Channel Multi-Purpose Programmer With RF

Installation Instructions



Thank you for choosing ESi Controls.

All our products are tested in the UK so we are confident this product will reach you in perfect condition and give you many years of service. However, for additional peace of mind, we recommend you register your product online at www.esicontrols.co.uk/warranty for your extended warranty.

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Installation Instructions

Technical Data

Power Supply	230V AC, 50Hz
Operating Temperature	0c to 35c
Switch Rating	230V AC, 6(2) A SPDT
Battery Type	Lithium Cell CR2032
Enclosure Protection	IP30
Plastics	Thermoplastic, flame retardant
Insulation Class	Double
Wiring	For fixed wiring only
Back Plate	Industry standard
Dimensions	140mm(L) x 90mm (H) x 30mm(D)
Clock	12/24 Hour Selectable. 1 minute resolution
BST/GMT Time Change	Automatic
Clock Accuracy	+/- 1 second/day
Programme Cycle	24 hr, 5/2 Day or 7 Day selectable
Programme Selection	AUTO, ON, OFF, ONCE
Programme Override	+1, +2, +3Hr / Advance
Heating System	Pumped, Gravity selectable
Wi-Fi	Optional Wi-Fi Hub
RF	868Mhz
Complies	EN60730-1, EN60730-2.7, EMC Directive 2014/30EU, LVD Directive 2014/35/EU, R&TTE Directive 1999/05/EC

Installation

Safety Instructions

This unit must be installed by a suitably qualified person in accordance with the latest IEE Wiring Regulations.

Isolate mains supply before commencing installation. Please read all instructions before proceeding.

Ensure that the fixed wiring connections to the mains supply is via a fuse rated at not more than 6 amps and class 'A' switch having a contact separation of a minimum of 3mm in all poles. The recommended cable sizes are 1.0mm sqr or 1.5mm sqr.

No earth connection is required as the product is double insulated but ensure continuity of earth throughout the system. To facilitate this, an earth park terminal is supplied on the back plate.

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

Maintenance

Always isolate the mains supply before commencing any work, servicing or maintenance on the system. Please read all instructions before proceeding.

Arrange for an annual maintenance and inspection schedule to be carried out by a qualified person on every part of the heating and hot water system.

Safety Notice

WARNING

Always isolate the AC mains supply before installation. This product must be fitted by a qualified person and installation must comply with the guidance provided in the current edition of BS767 (IEE wiring regulations) and part "P" of the building regulations.

Fitting The Back Plate

1. Position the back plate with the terminals at the top edge. Leave 60mm (minimum) clearance to its right, 25mm (minimum) above and 90mm (minimum) below. Ensure the supporting surface will fully cover the back of the programmer.

2. Offer the back plate to the wall in the position where the programmer is to be mounted, remembering that the back plate fits to the left side of the programmer. Mark the fixing positions through the slots in the back plate, drill and plug wall then secure back plate in position.

3. All necessary electrical connections should now be made (see page 10 for details). Ensure that the wiring to the wall plate terminals leads directly away from the terminals and is completely enclosed within the back plate aperture. Wire ends must be stripped and screwed to the terminals so that minimal bare wire is showing.

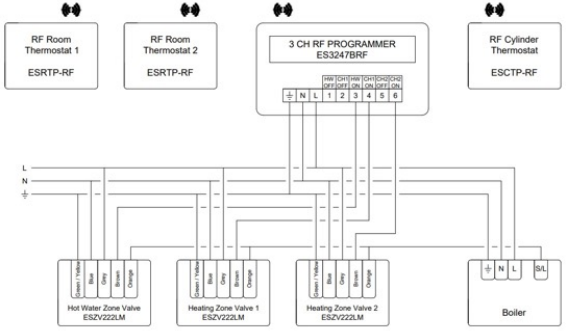
Existing Installations

1. Remove the old programmer from its back plate mounting, loosening any securing screws as dictated by its design. These screws are usually located along the bottom edge of the programmer.
2. Check the compatibility of the existing back plate & wiring arrangement with that of the new programmer.
3. Make all necessary changes to the back plate & wiring arrangement to suit your new programmer.

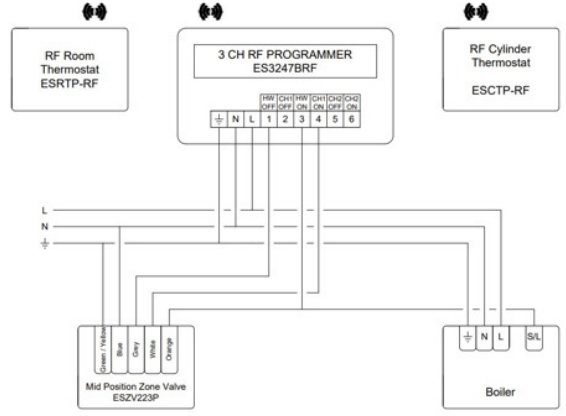
New Installations

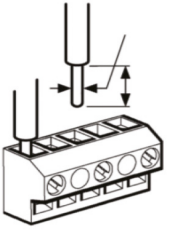
Your ES3247BRF can communicate with compatible room & cylinder thermostats using RF, (see page14) however it must also be wired into the heating system using the traditional method, (see page 10). The programmer controls up to 3 x two port spring return valves via your room and cylinder thermostats giving independent control of hot water and up to two zones of heating. If the programmer is being installed onto an existing system, additional equipment such as an extra zone valve may be required to achieve full three channel control.

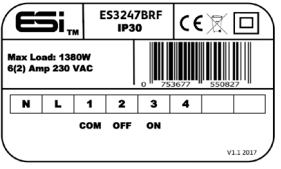
S Plan


RF Room Thermostat 1
ESRTP-RF
RF Room Thermostat 2
ESRTP-RF
3 CH RF PROGRAMMER ES3247BRF
HW OFF
CH1 OFF
HW ON
CH1 ON
CH2 OFF
CH2 ON
N L 1 2 3 4 5 6
RF Cylinder Thermostat
ESCTP-RF
L
N
Green / Yellow
Blue
Grey
Brown
Orange
Hot Water Zone Valve ESZV222LM
Heating Zone Valve 1 ESZV222LM
Heating Zone Valve 2 ESZV222LM
N L S/L
Boiler

Y Plan


RF Room Thermostat ESRTP-RF
3 CH RF PROGRAMMER ES3247BRF
HW OFF
CH1 OFF
HW ON
CH1 ON
CH2 OFF
CH2 ON
N L 1 2 3 4 5 6
RF Cylinder Thermostat
ESCTP-RF
L
N
Green / Yellow
Blue
Grey
White
Orange
Mid Position Zone Valve ESZV223P
N L S/L
Boiler





Technical Settings

1. Move the slider bar to **RUN**. Hold down the ⌂ **Home** button, the **Day** button and the **–** button (under the facia) together for 3 seconds to enter the Technical Settings Menu.

2. Press **+/-** to choose between Pumped or Gravity. Gravity does not allow Central Heating without Hot Water but can provide Hot Water without Central Heating.

3. Press the **Next ▶▶** button and press to choose between Protection ON/Off. If Protection is ON and the system does not call for heat for one week, the system will be turned ON for one minute each week that the system does not call for heat.

4. Press the **Next ▶▶** button and press **+/-** to choose between 24 HOUR clock display or 12 HOUR clock display.

5. Press the **Next ▶▶** button and press **DAY** to reset your programmer. The display will show '.. .. ..' while your programmer resets. Once complete, your programmer will revert to its Home Display.

Setting the Landlord Service Interval

1. Switch the slider bar to **RUN**.

2. Hold the ⌂ **Home**, **COPY** and the **+** buttons together until the display shows 'ENTER CODE'. A numeric password will be required to enter these settings.

3. Press the **+/-** buttons to enter the first digit of the code. Press the **Next ▶▶** button to move to the next digit. Repeat this until all 4 digits have been entered and then press the **Next ▶▶** button.
N.B. *Only when the code entered matches the pre-set code can the landlord settings be entered. The factory default code is 0000.*

4. Once the correct code has been entered and you have pressed the **Next ▶▶** button, the display will show 'SERVICE INTERVAL' flashing. Use the **+/-** buttons to turn the landlord functions on/off

5. If landlord functions are turned on, press the **Next ▶▶** button and the LCD will show 'DISPLAY TEL NO'. Use the **+/-** buttons to choose between YES and NO. Select YES and press the **Next ▶▶** button. 'TEL NO' will appear with a flashing cursor at the bottom of the display. Use the **+/-** buttons to select the first digit of your phone number and the **DAY** button to move on to the next digit.

6. When you have entered your number, press the **Next** ▶▶ button. You will see 'SERVICE DUE' on the LCD with '365' flashing. Use the **+/-** buttons to enter the number of days in the future that you would like to set the service day. For example 365 would be in 1 years' time.

7. Press the **Next** ▶▶ button and the LCD will show 'SERVICE ALERT'. This is the number of days prior to the service due date that your programmer will alert the end user that the service is due. This can be between 1 & 31 days. Use the **+/-** buttons to set the number of days, then press the **Next** ▶▶ button.

8. 'ALERT DISPLAY' will show on the LCD with the number '1' flashing. Choose between the following:

1. Reminds the end user that the annual service is due by alternating between displaying SER and the maintenance telephone number on the display.

2. As above and will only allow the system to run for 60 minutes each day after the service date.

3. As number 1 above but will not allow the system to run after the service date.

9. When you have chosen the Alert to be displayed, press the **Next** ▶▶ button and you will be prompted to enter a new PIN code. Use **+/-** buttons to select the first digit of your new PIN code and the **DAY** button to move on to the next digit. When you have finished, press the **Next** ▶▶ button, 'CHANGE CONFIRMED' will show briefly on the LCD, followed by returning to 'SERVICE INTERVAL'.

10. Press the ⌂ **Home** button to exit the Landlord Service Menu. To access the Landlord Service Menu again, your new PIN code must be used.

Pairing With RF Room & Cylinder Thermostats

Your ES3247BRF can wirelessly communicate with compatible RF room and cylinder thermostats via RF and with a compatible Wi-Fi Hub.

1. On your programmer, set the slider bar to the **RUN** position.

2. Hold down the **DAY** button until the display shows 'ZONE 1' and 'LINK THERMOSTAT'

3. Use the +/- button to select from the following:

- ZONE 1 – Room thermostat for zone 1
- ZONE 2 – Room thermostat for zone 2
- ZONE 3 – Cylinder thermostat
- GATEWAY – Wi-Fi Hub*

**The Wi-Fi Hub will only pair with the ES3247BRF. It will not pair with thermostats.*

4. Remove the rear cover of your thermostat by pressing the button on the bottom edge. See Image 2

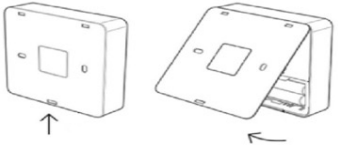


Image 2

5. HOLD the Pair RF button on the inside of your thermostat, (*See Image 3*), then wait until your programmer shows 'SUCCESS' and your thermostat will show 'PAIR'.

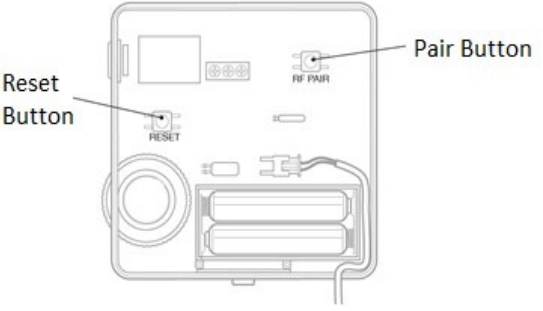


Image 3

6. If you wish to cancel the RF pairing process, press the Pair RF button at any time.

7. Replace the rear cover of your thermostat.

Pairing With Optional RF Wi-Fi Hub

Your thermostats that are linked to your ES3247BRF

can be controlled via our ESi Centro app by pairing your ES3247BRF with a compatible Wi-Fi Hub, (ESWIFIHUB).

1. Plug your ESWIFIHUB into a power source using the micro USB port.

2. On your ESWIFIHUB, hold down the right button until the left button flashes green rapidly.

3. On your ES3247BRF, hold down the **DAY** button until the display shows 'ZONE 1' and 'LINK THERMOSTAT'.

4. Use the **+/-** button to select 'GATEWAY', your ES3247BRF & ESWIFIHUB will automatically connect and you will see 'SUCCESS' on your programmer display.

Commissioning

Switch on the mains supply and refer to the User Instructions supplied with this product.

1. Ensure RF room/cylinder thermostats have been paired with the programmer if they have been installed.

2. Set timing and program details in accordance with customer requirements.

3. Normally the programmer will be left in 'RUN' mode.

4. Leave all instructions with the customer for reference.

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

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.

Energy Saving Innovative Controls Limited

www.esicontrols.co.uk

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