

RF2B



2 Zone RF Receiver

Installation and Operation Guide

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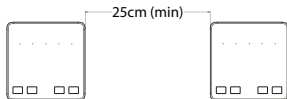


RF2B Receiver Installation Instructions

Important Notes

Caution!

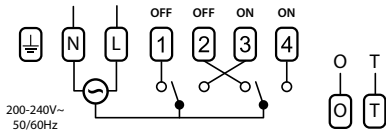
- Installation and connection should only be carried out by a qualified person.
- Only qualified electricians or authorised service staff are permitted to open the receiver.
- If the receiver is used in a way not specified by the manufacturer, its safety may be impaired.
- Prior to setting the receiver, it is necessary to complete all required settings described in this section.
- Before commencing installation, the receiver must be first disconnected from the mains.
- This device must be connected to a circuit protected by a suitable fuse or circuit breaker.
- Each receiver should have a minimum 25cm distance from any metal object such as a pipe or a min. 25cm from any electrical device such as a spur or socket. It should be fitted 1m away from wireless devices such as a router or Wi-Fi booster. This is to ensure the best possible wireless connection and operating range.
- When installing multiple receivers, it is important to ensure that there is a minimum 25cm between each receiver. If they are too close, they will not be able to pair with each other.
- Where possible, keep the receivers in the same area of the premises to allow for stable communication.



Specifications & Wiring

Power supply:	200 - 240Vac 50-60Hz
Contact rating:	230Vac, 3A
Switch output:	SPDT
Ambient temperature:	0 ... 45°C
Automatic action:	Type 1.C.Q
Appliance classes:	Class I
Pollution degree:	Pollution degree 2
IP Rating:	IP20
Rated Impulse Voltage:	Resistance to voltage surge 4000V as per EN 60730

Internal wiring

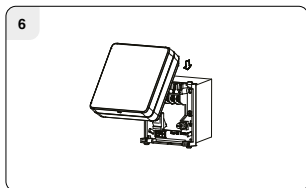
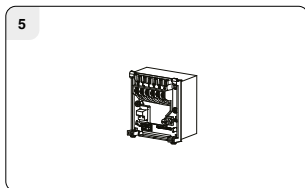
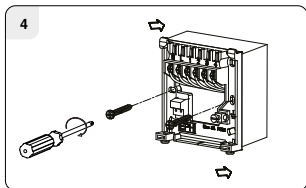
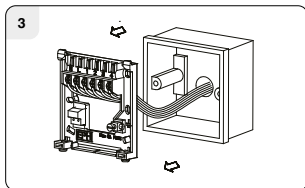
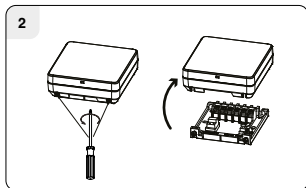
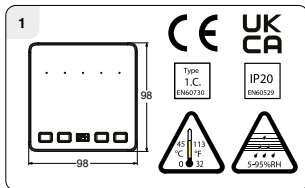


Note: Opentherm® can only be used when two RF thermostats are connected to the RF2B.

Mounting & Installation

- 1) The RF2B receiver should be wall mounted in an area within 20 metres distance of the wireless thermostat. It is important that the receiver has over 25cm clearance from metal objects as this will affect communication with the thermostat. The receiver should be installed at least 1 metre from any electronic devices such as radio, TV, microwave or wireless network adapter.
- 2) Use a Phillips screwdriver to loosen the screws of the backplate on the bottom of the RF2B. The receiver is lifted upwards from the bottom and removed from the backplate. (see page 7)
- 3) Screw the backplate to the wall with the screws provided.
- 4) Wire the backplate as per the wiring diagram on page 5.
- 5) Mount the receiver on the backplate making sure the pins and the backplate contacts are making a sound connection. Push the receiver flush to the surface and tighten the screws of the backplate from the bottom. (See page 7)
- 6) If installing more than one RF2B receiver ensure they are 25cm apart.

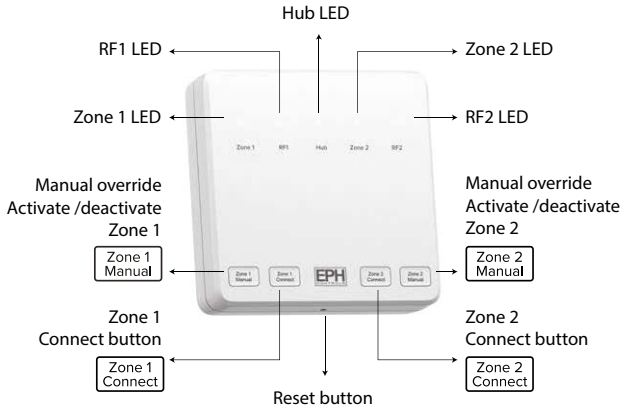
Note: Short Circuit Protection: Apply IEC-60898-1 compliant 250V~, 6A, Type C MCB as protection.





RF2B Receiver **Operating Instructions**

Button / LED Description



Note:

- Manual override function can only be used when there is no thermostat is paired with the RF2B.
- Please refer to Page 11 for detailed description for the Zone Connect buttons.

LED Description

LED	Colour	Description
Zone 1 / Zone 2	Red	Zone 1 / Zone 2 is OFF.
	Green	Zone 1 / Zone 2 is ON.
HUB	White	Indicating that the receiver is a HUB.
RF1 / RF2	White	Indicating that the thermostat is connected.
		The RF light will double flash every second when the thermostat is disconnected. Check thermostat pairing.
		Note: The RF light will blink intermittently when the system is sending and receiving a signal for communication.
		Note: The RF light will blink once every second when in RF pairing by holding Connect. Press Manual to exit from this state.

Pairing your RF Thermostat to a RF2B receiver

Connecting to Zone 1

1. On the RF2B receiver:

Press and hold  until the white RF1 LED begins to flash.

2. On the RF Thermostat:

Put the RF thermostat into pairing mode.

(See thermostat instructions)

3. On the RF2B:

The white RF1 LED will appear solid.

Connecting to Zone 2

1. On the RF2B receiver:

Press and hold  until the white RF1 LED begins to flash.

2. On the RF Thermostat:

Put the RF thermostat into pairing mode.

(See thermostat instructions)

3. On the RF2B:

The white RF2 LED will appear solid.

Pairing two RFRP-TW to a RF2B receiver

Connecting to Zone 1

1. On the RF2B receiver:

Press and hold  until the white RF1 LED begins to flash.

2. On the RFRP-TW:

Press and hold  for 5 seconds. 'P01 & Prog' will appear on the screen.

Press  until 'P03 & rF' appears on the screen.

Press  to select.

Wait for 'r01' to appear solid.

Press  to confirm the thermostat is connected.

3. On the RF2B:

The white RF1 LED will appear solid.

Connecting to Zone 2

1. On the RF2B receiver:

Press and hold  until the white RF1 LED begins to flash.

2. On the RFRP-TW:

Press and hold  for 5 seconds. 'P01 & Prog' will appear on the screen.

Press  until 'P03 & rF' appears on the screen.

Press  to select.

Wait for 'r02' to appear solid.

Press  to confirm the thermostat is connected.

3. On the RF2B:

The white RF2 LED will appear solid.

Pairing your RF2B Receiver to a RF2B Receiver

This allows pairing of an RF2B hub receiver with an RF2B branch receiver providing additional zone control.

Important notes:

- Only one receiver can be a Hub receiver.
- To change a Hub receiver to a Branch receiver, repeat the Hub setup steps.
- When the Hub light is illuminated, the receiver is a Hub.
- When the Hub light is not illuminated, the receiver is a Branch.
- The system allows control of up to 6 zones, supporting a max. of 3 RF2B receivers.

To make your RF2B a HUB:

On the RF2B receiver:

Hold  &  for 5 seconds.

The Hub LED will illuminate. The RF2B is now a HUB.

Pairing your RF2B Hub receiver to a RF2B Branch receiver:

1. On the RF2B Hub receiver:

Hold  &  on the RF2B until the RF1 & RF2 LED flashes.

2. On the RF2B Branch Receiver:

Hold  until RF LED flashes.

When pairing is successful, the RF light will stop flashing.

3. On the RF2B Hub receiver:

Press  to return to normal operation.

Pairing your RF2B Receiver to a RF1B Receiver

This allows pairing of an RF2B receiver with an RF1B receiver providing additional zone control. **Important notes:**

- Only one receiver can be a Hub receiver.
- To change a Hub receiver to a Branch receiver, repeat the Hub setup steps.
- When the Hub light is illuminated, the receiver is a Hub.
- When the Hub light is not illuminated, the receiver is a Branch.
- The system allows up to 6 zones using a combination of RF1B & RF2B receivers.

Ensure that the RF2B is set up as a Hub receiver.

To make your RF2B a HUB:

On the RF2B receiver:

Hold  &  for 5 seconds.

The Hub LED will illuminate. The RF2B is now a HUB.

Pairing your RF2B Hub receiver to a RF1B receiver:

1. On the RF2B Hub receiver:

Hold  &  on the RF2B until the RF1 & RF2 LED flashes.

2. On the RF1B Receiver:

Hold  on the RF1B until RF1 LED flashes.

When pairing is successful, the RF light will appear solid.

3. On the RF2B receiver:

Press  to return to normal operation.

Pairing your RF2B Receiver to your GW04 Gateway

Ensure that your RF thermostat(s) are paired to your RF2B receiver.
Ensure that the RF2B is set up as a Hub receiver.

To make your RF2B a HUB:

On the RF2B receiver:

Hold  &  for 5 seconds.

The Hub LED will illuminate.

The RF2B is now a Hub receiver.

Pairing your RF2B receiver to your GW04 Gateway:

1. On the RF2B receiver:

Hold  &  on the RF2B until RF1 & RF2 LED flashes.

2. On the GW04 Gateway:

Hold the RF Connect button  until RF LED flashes.

The gateway & receiver will stop flashing. Pairing is now complete.

The white RF light on the GW04 will stay illuminated.

To disconnect the RF2B receiver

Disconnecting Zone 1

On the RF2B receiver:

Hold  for 3 seconds to enter pairing mode,

Hold  for 10 seconds and Zone 1 LED will turn on,

Press  to exit, the thermostat is now disconnected.

Disconnecting Zone 2

On the RF2B receiver:

Hold  for 3 seconds to enter pairing mode,

Hold  for 10 seconds and Zone 2 LED will turn on,

Press  to exit, the thermostat is now disconnected.

Compatible Thermostats



RFRP-TW

Individually sold



RFRP^{v2}

Included with CP4^{v2}



RFRPD

Included with CP4D



RFRP-OT

Included with CP4



RFRP-HW-OT

Included with CP4-HW-OT

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