Installation

Electrical Connection

Terminal	Function
COM	Common Contact (volt free input)
NO	Normally Open Contact (volt free output)
⏚	Earth Parking
L	Incoming Mains - Live
N	Incoming Mains - Neutral

The JGBR Receiver should be mounted in a suitable location that is both accessible for the connection of mains and control wiring, and allows good reception of the wireless signal. The Receiver needs a 230v AC mains supply to operate, and this should be fused appropriately (16A max.).

The Receiver should be mounted in a location where it will not come into contact with water, moisture or condensation. There are few electrical connections required to the JGBR, and these connections should be made to the terminal block inside the Receiver. No Earth connection is required for the correct and safe operation of the JGBR, but a parking terminal is provided to connect an Earth wire if one is present.

1 Loosen the screws at the bottom of the receiver unit.

2 Unclip the front of the unit.

3 Fit the back of the receiver unit to the wall using the fittings supplied.

4 Use schematics to wire up, selecting RX1 or RX2.

5 Clip the front of the unit back on by aligning the fittings and pushing into place.

6 Securely screw the front of the receiver in place.

Power Up

1 Ensure Coordinator is powered up and ready for pairing.

2 Power up the receiver. The red light will flash.

3 When the receiver has successfully joined the Zigbee network, the red LED will go steady.

4 Please refer to JGSTATW1 /JGSTATW2 Installation Manual for system pairing.

5 Once your system setup is complete, remember to take the coordinator out of pairing mode.

Technical Detail

Model	JGBR
Type	Wired system receiver designed for 230v AC heating applications
Control	ON-OFF control
Environment Ratings	
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +60°C
Operating Humidity	5-95 %RH
Switch Voltage	0-230v AC 16AMP
Power Source	230v AC 50Hz
User Interface	Slide switch, Bi Colour LED, RED/GREEN
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C
Frequency	2.4 GHz

Installer Notes

Installer Notes

Horton Road, West Drayton, Middlesex UB7 8JL, England.

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Fax: 01895 420321
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Boiler Receiver Instruction Manual

For model:

JGBR

www.speedfitUFH.co.uk

Contents

Box Contents:

Instruction Manual

Screws x 2
and Wall Plugs x 2

Boiler Receiver JGBR

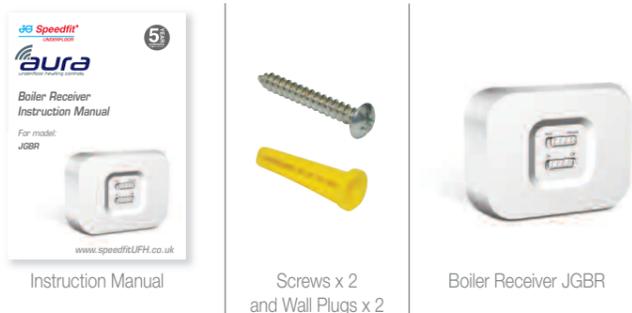### Instruction Manual:
- Box contents
- Product Compliance
- User Interface
- Installation
- Technical Detail
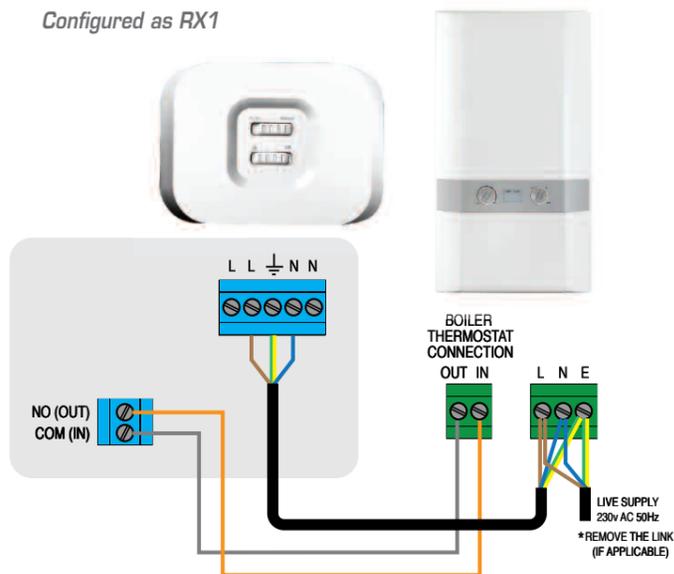- RX1 and RX2 Configuration and System Overview
- Installers notes

Icons used in this manual:

⚠ Safety

ⓘ Important info

For latest PDF Instruction Manual please go to www.speedfitUFH.co.uk

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Product Compliance & Safety Information

Introduction. Thank you for purchasing the Speedfit Aura JGBR System Receiver. This unit is designed to work with JG Aura range of Zigbee network products.

The JGBR can be configured as remote boiler switch or a simple single channel output to control, a thermal actuator or zone valve. Please note the two configuratons above can be used together in the one system.

ⓘ **Product Compliance.** This product is CE compliant and meets the following EC Directives:
RoHS2 directive 2011/65/EU, Electro-Magnetic Compatibility directive 2004/108/EC and Low voltage directive 2006/95/EC.

These instructions are applicable to the Aura model stated on the front cover of this Instruction Manual only.

⚠ **Warning.** This product must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the location where the product is installed. Failure to comply with the requirements of the relevant guidance, standards and regulations could lead to injury, death or prosecution.
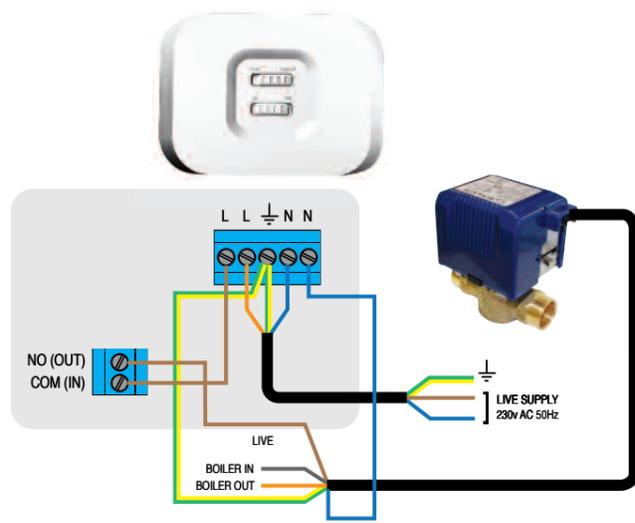
⚠ **Sources of danger.** The JGBR must be disconnected from mains supply before removing the cover.

⚠ **Emergency.** Switch off the voltage to the individual thermostat, wiring centre or complete system.

⚡ **230v AC**

⚠ **Warning.** Always isolate the AC Mains supply before installing or working on any components that require 230v AC 50Hz supply.

System Overview

JGWCW

JGUFHA(240V)/2

JGBR configured as stand alone receiver RX2.

JGTRV

Switch Valve

JGSTATW1/ JGSTATW2

Switch Boiler

JGBR configured as Boiler Receiver RX1.

JGCO

User Interface

1 AUTO – The bottom slide switch is not active. System receiver output will switch on and off in relation to the command from the Aura transmitter. The bottom slide switch in active.

2 RED led only in AUTO - There is no output from the receiver.

3 RED and Green LED in AUTO - There is an output from the receiver. The device that the receiver is connected to will be switched on.

4 Manual - System receiver output is controlled by the bottom slide switch. Either permanently ON or OFF. The LED status in manual is the same as AUTO.

Schematics

Configured as RX1

L L ⏚ N N

BOILER THERMOSTAT CONNECTION
OUT IN   L N E

NO (OUT)
COM (IN)

LIVE SUPPLY
230v AC 50Hz

*REMOVE THE LINK (IF APPLICABLE)

Please note - Grey and orange wires are used for boiler switching and connected to the Boiler Thermostat terminals. If RX2 Receiver is used in conjunction with an RX1 Wireless Receiver then these connections can be discarded as there will be communication between RX1 and RX2.

Configured as RX2

L L ⏚ N N

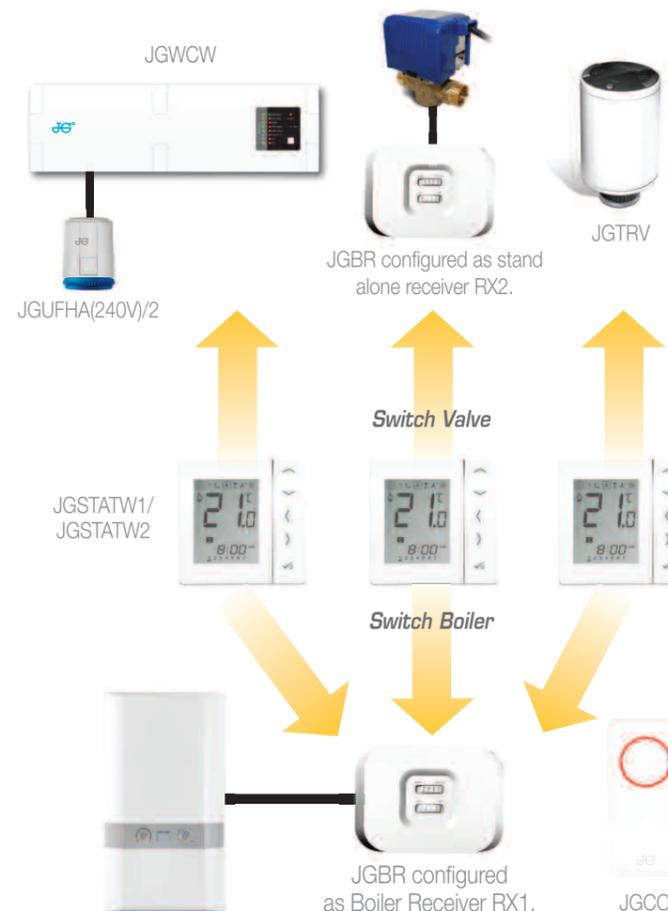NO (OUT)
COM (IN)

LIVE SUPPLY
230v AC 50Hz

LIVE

BOILER IN
BOILER OUT

Reset Button - If for any reason the system receiver stops operating, press reset and check system operation.

Replacing the System Receiver - If for any reason the system receiver needs to be removed/replaced, press the delete from network buttom.
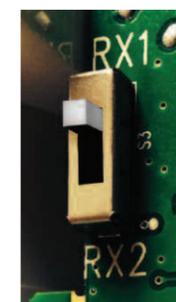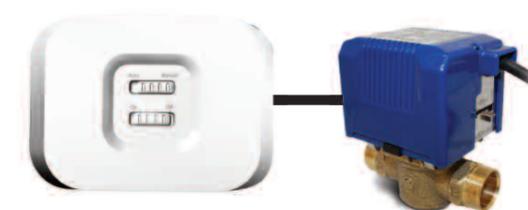

System Overview - Aura System Configured as RX1

The unit can be switched internally to use one of two channels, RX1 (boiler receiver) or RX2 (single room receiver). Ensure the unit is not powered during setting of the RX1/RX2 slide switch.

The unit is supplied with the switch in the RX1 position (Boiler Receiver). In this mode, the unit can be wired to the boiler to switch it on or off using the wireless signals it receives from other Aura products on the Aura Zigbee network.

System Receiver configured to boiler receiver RX1.
Refer to reverse side for wiring.

System Overview - Aura System Configured as RX2

With the unit is switched to RX2, the unit will act as a single room receiver. Switching of the unit will be controlled by a paired Aura JGSTATW1/JGSTATW2 Thermostat. Depending on its intended use, the unit can be used to switch a motorised valve, thermal actuator or pump.

As well as being used in this way, the RX2 can be used in conjunction with another unit set up as an RX1 (Boiler receiver). When there is a call for heat from the thermostat paired to the RX2 both of the wireless receivers will operate turning on both the boiler and the motorised valve / pump.

Please note: Only one RX1 and one RX2 can be used as part of a network.

System receiver configured as stand alone receiver RX2.
Refer to reverse side for wiring.