

RF1A-OT - Wireless Receiver

with RFRP-HW-OT

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Operating Instructions

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Important: Keep this document

Prior to operation, it is necessary to complete all required settings described in this section.



CAUTION!

Before commencing any work on the electrical connections, you must first disconnect the device from the mains. None of the 230V connections must be live until the installation has been completed and the housing is closed. Only qualified electricians or authorised service staff are permitted to open the terminal box.

There are parts that carry mains voltage behind the cover. The terminal box must not be left unsupervised when open. (Prevent non specialists and especially children from gaining access to it.)

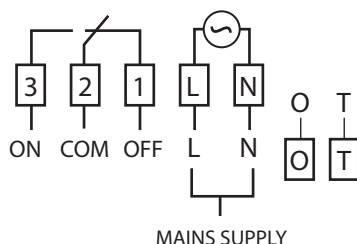
Ensure that this wireless enabled receiver is installed 1 metre from any metallic object, television, radio or wireless internet transmitter.

1. Specifications & wiring

Power Supply: 200 - 240Vac
50-60Hz
Contact Rating: 250 Vac 10(3)A
Ambient Temp: 0~45°C
Automatic Action: Type 1.C.Q

Class II appliance
Pollution degree: Pollution degree2
Rated Impulse Voltage: Resistance to voltage surge 2500V; as per EN 60730
IP Rating: IP20

Internal wiring diagram for RF1A-OT



* If mains voltage output is required, terminals L & 2 must be electrically linked.

Important: Do not connect Mains Voltage to OpenTherm® terminals.

2. Mounting

The RF1A-OT receiver should be wall mounted in an area within 20 metres distance of the wireless thermostat.

It is important that the receiver is mounted more than 1 metre away from metal objects as this will affect communication with the thermostat.

The receiver should also be installed at least 1metre from any electronic devices such as radio, TV, microwave or wireless network adaptor.

The unit can be fitted to:

1. Recessed conduit boxes
2. Surface mounting boxes

3. Installation

Slacken the fastening screw on the bottom of the receiver with a philips screwdriver.

The receiver is hinged and can be opened 180 degrees. Mount the unit as described in section 2. Wire the unit as described in section 1. Close the receiver and tighten the fastening screw.

4. Button / LED description



Wireless connect: Once voltage has been applied this button may be pressed to initialise the pairing process with the wireless thermostat. Once pressed the red and green LED will begin to flash.

Manual override: This button will manually override the system.

LED description:

OT Connection Normal Operation	Green LED	Red LED
RF1A-OT On	ON	OFF - will flash when communicating via RF
RF1A-OT Off	OFF	ON - will flash when communicating via RF

OT Communication Error	Green LED	Red LED
RF1A-OT On	Constant Flash	OFF
RF1A-OT Off	Constant Flash	ON

RF Communication Error	Green LED	Red LED
RF1A-OT On	ON	Constant Flash
RF1A-OT Off	OFF	Constant Flash

Summary	Green LED	Red LED
RF Communication Error	OFF or ON	Constant Flash
OT Communication Error	Constant Flash	OFF or ON
Normal Operation RF1A On	ON	OFF or Flashing
Normal Operation RF1A Off	OFF	ON or Flashing



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5. Resetting the RF1A-OT receiver

Press the  RESET button located on the side of the receiver. The RF1A-OT receiver is now reset.

6. To connect the RFRP-HW-OT thermostat to an RF1A-OT receiver

Please note, If you are installing a CP4-HW-OT, the RFRP-HW-OT thermostat and the RF1A-OT receiver will have a pre-established RF connection so it is not necessary to carry out the RF connection process below.

On the RF1A-OT receiver:

Press the  button on the RF1A-OT receiver.
The red light will begin to flash.

On the RFRP-HW-OT thermostat:

Press the  Connect button.

The thermostat will show "nOE" followed by "----"

Once an RF connection has been established the thermostat will show 'r01' on the LCD screen.

Press the 'OK' button to finish the process.

The thermostat is now connected to the RF1A-OT receiver.

7. To disconnect the RFRP-HW-OT thermostat from an RF1A-OT receiver

This can be done from either the thermostat or the receiver.

7.1 On the RFRP-HW-OT thermostat:

Press the  Connect button.

The thermostat will begin to search through the RF channels.

Press and hold the 'Copy' button for 10 seconds.

'Adr' will appear on the screen of the thermostat.

Press the 'OK' button twice to complete the unpairing process.

The thermostat RFRP-HW-OT is now disconnected from the receiver RF1A-OT.

7.2 On the RF1A-OT receiver:

Press the  button, the red light will flash.

Red & green lights if using as a hub receiver.

Press and hold connect for about 10 seconds, the receiver will then stop flashing.

The RF connection is now cleared.