User Manual

red SMOKE ALARMS

Model: RFMOD

Wireless RF Module

INTRODUCTION

IMPORTANT: If you are installing this product for use by others, you must leave this manual (or a copy of it) for the end user.
Add the RF module (RFMOD) to Red smoke/heat alarm to enable wireless connection with other RF wireless alarms/products from Red Smoke Alarms.

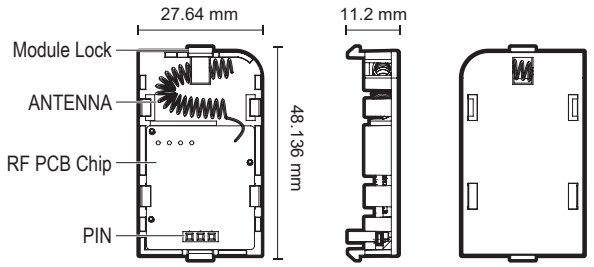
The purpose of the RF Module is to wirelessly connect with all Red Smoke Alarm RF Paired devices within a system. If one alarm detects a fire, the RFMOD module connected to that alarm will send out an RF signal, triggering all other alarms in the system to sound off.

RFMOD removes the necessity of setting up wired connections between alarms on various floors and rooms to convey warnings.

The RFMOD cannot function independently, it requires attached alarms. It must be connected to the Red Smoke RF compatible alarm unit (refer to the section "Compatible Models with RFMOD"). We advise end-users to carefully read the installation instructions for correct RFMOD setup.

DIAGRAM & WARNING

Fig.1



WARNING : DO NOT BEND THE ANTENNA OR THE PIN.
CAUTION : DO NOT TOUCH THE RF PCB CHIP. HOLD THE PLASTIC HOUSING PART OF THE RFMOD FOR INSTALLATION.

COMPATIBLE MODELS WITH RFMOD

Fig.2

	Model
Smoke Alarms	RFMDUAL
	R240IT
	RSDUAL
Heat Alarm	RHA240SL

RFMOD

Scan QR code to find out all the compatible series alarms and installation

SECTION 1 - EXAMPLES OF INSTALLATION AND REMOVAL OF THE RFMOD

1.1 INSTALLATION OF RFMOD INTO RFMDUAL

INSTALLING THE RF MODULE INTO THE ALARM UNIT:

1. Before installing the RF Module into the alarm unit, ensure that the alarm is deactivated by removing the alarm unit from the flush mount base. To remove the alarm unit from the flush mount base, use an insulated screwdriver to press the button located at the two arrow points. See Fig.3
2. Adjust the angle of the RF Module to align it parallel with the alarm unit, and gently push the RF Module into place. Avoid using excessive force to prevent any damage to the RF Module. If the RF Module does not fit smoothly into the alarm unit, readjust the angle and try reinserting. See Fig.3.1
3. When the RF module is successfully installed into the alarm unit, you will hear a clicking sound indicating proper attachment.

Fig. 3

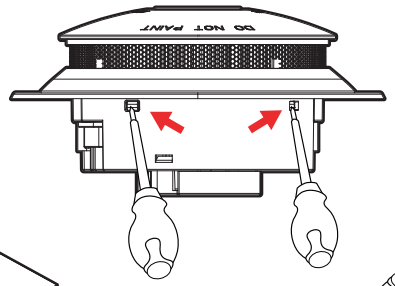


Fig. 3.1

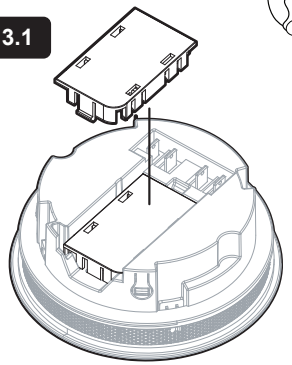
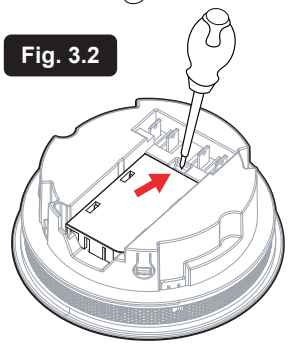


Fig. 3.2



REMOVING THE RF MODULE FROM THE ALARM UNIT:

- To remove the alarm unit from the flush mount base, use an insulated screwdriver to press the button located at the two arrow points. See Fig.3
- Hold the alarm unit securely and use an insulated screwdriver to push the module lock of the RF Module, which will result in the removal of the RF module from the alarm unit. See Fig.3.2

1.2 INSTALLATION OF THE RFMOD INTO AN RHA240SL

INSTALLATION OF THE RF MODULE INTO THE ALARM UNIT:

1. Prior to inserting the RF Module into the alarm unit, carefully slide the alarm unit out from its base, utilise an insulated screwdriver to lift the latch positioned at the arrow points. See Fig. 4.1
2. Adjust the angle of the RF Module to align it parallel with the alarm unit, and gently push the RF Module into place. Avoid using excessive force to prevent any damage to the RF Module. If the RF Module does not fit smoothly into the alarm unit, readjust the angle and try reinserting. See Fig.4
3. When the RF module is successfully installed into the alarm unit, you will hear a clicking sound indicating proper attachment.

Fig. 4

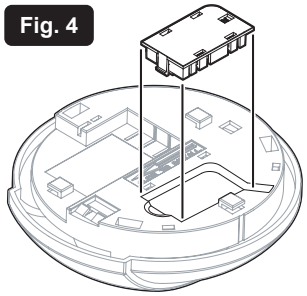
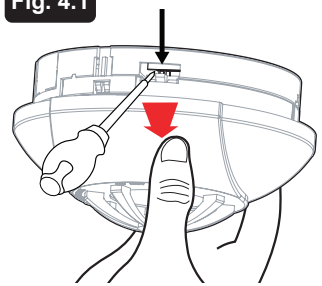


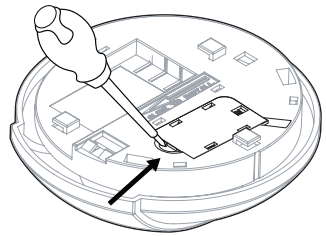
Fig. 4.1



REMOVAL OF THE RF MODULE FROM THE ALARM UNIT:

- To remove the alarm unit from its base, utilise an insulated screwdriver to lift the latch positioned at the arrow points. (See Fig. 4.1), then slide the alarm unit out from its base following the direction indicated by the red arrow.
- Hold the alarm unit securely and use an insulated screwdriver to push the module lock of the RF Module, which will result in the removal of the RF module from the alarm unit. See Fig.4.2

Fig. 4.2



SECTION 2 - RF WIRELESS PAIRING

Please review the conditions below to set up the RF Wireless Pairing Network.

Condition A

To set up a new RF Pairing network, the simplest approach is to gather all RF devices and conduct the RF pairing process collectively.

1. Choose an RF alarm device to act as the "Master" of the network.
2. Place the label "MASTER" onto the chosen device. Treat all other units as "BRANCH" units.
3. To enter the self-pairing mode on the MASTER device, press and hold the RF pairing button for 10 seconds until the alarm's red LED turns solid.
   - Refer to Figure 5 for locating the RF Pairing Button on the RHA240SL.
   - Refer to Figure 5.1 for locating the Test/Hush Button on the RFMDUAL.
   - Refer to Figure 5.2 for locating the Test/Hush Button on the RHA10RF.

   ***NOTE:** To exit the self-pairing mode, press the RF pairing button once, the Red LED will turn off.*
4. While the LED of the MASTER unit is illuminated, pair the BRANCH units by pressing their RF pairing button twice. The LED of the BRANCH unit will flash five times to indicate successful connection.
5. To confirm the success of the RF Pairing network, conduct the testing procedure (refer to the section "TESTING THE RF PAIRING NETWORK").

Condition B

If an existing in-house RF network has already been established and you intend to incorporate an additional device.

1. Look for the Master alarm device within the premises.
2. Proceed with steps 3 to 5 as outlined in Condition A.

Condition C

If the RF network already exists but you are uncertain about the device designated as the master, you might consider resetting the RF network within your premises.

1. Clear the RF Memory on all the alarm devices (refer to the section "CLEAR RF MEMORY").
2. Carry out the RF network setup as detailed in Condition A.
3. Conduct a test to ensure the success of the RF Pairing network (refer to the section "TESTING THE RF PAIRING NETWORK").

CONTENT FIGURES

Fig. 5

RHA240SL

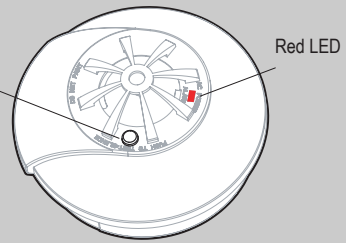


Fig. 5.1

RFMDUAL

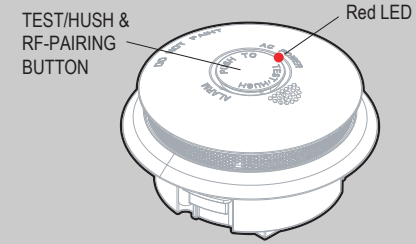
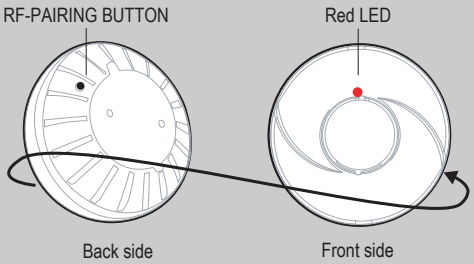


Fig. 5.2

RHA10RF



"Master" Label

TESTING THE RF PAIRING NETWORK

TESTING RF NETWORKS

- Press and hold the alarm's test button for 3 seconds, then release.
- The alarm will activate the test mode, the paired alarms and devices will also trigger within 60 seconds. The alarm's red LED will flash for 60 seconds.
- It is advisable to conduct a self-test of all units within your RF network on a weekly basis.

IN ADDITION - THE NETWORK SHOULD ALSO BE TESTED WHENEVER:

- An additional alarm or ancillary product is added to the system.
- There are changes to the structure of your property.
- There are significant changes in the position of large items of furniture or electrical products in your home.

CLEAR RF PAIRING MEMORY

Clear the RF pairing memory by pressing the RF Pairing Button five times. The alarm's Red LED will flash ten times.

***Please note:** Once the RF Pairing network has been set up, the RF Wireless Pairing Memory will persist. Activating or deactivating the device will not eliminate the units from the RF network. The sole approach to remove a device from the RF network is by erasing the RF Wireless Pairing memory from the device.*

TECHNICAL SPECIFICATION

Temperature Range:	0°C to 45°C
Humidity Range:	5% to 95% (non-condensing)
Maximum Lifespan:	10 years
Transmit Frequency:	433.92 MHz
Interconnecting:	40 units
RF Range	100 m free air / 30 m indoors (line of sight)

For optimal performance, it is advised to maintain a maximum distance of 30 metres between any RF paired alarm or device. This recommendation takes into consideration that walls and other obstructions within the building may potentially decrease the effective range.

WARRANTY

Red Smoke Alarms warrants the RFMOD RF Module to be free from defects in materials and workmanships under normal use and service for a period of ten years. The company will not be obligated to repair or replace parts which are found to be in need of repair because of misuse, damage or alterations that occur after the date of purchase. Return the RFMOD RF Module with proof of purchase to your local distributor. The liability of the company arising from the sale of this RFMOD RF Module shall not in any case exceed the cost of replacement and in no case shall the company be liable for consequential loss or damages resulting from the failure of the RFMOD RF Module.

RED SMOKE ALARMS PTY. SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE, OR ANY SPECIAL INCIDENTAL, CONTINGENT OR CONSEQUENTIAL DAMAGE OF ANY KIND RESULTING FROM A FIRE. THE EXCLUSIVE REMEDY FOR BREACH OF THE LIMITED WARRANTY CONTAINED HEREIN IS THE EXCLUSIVE OPTION BY RED SMOKE ALARMS PTY. LTD. TO REPAIR OR REPLACE THE DEFECTIVE PRODUCT. IN NO CASE SHALL RED SMOKE ALARMS PTY. LTD.'S LIABILITY UNDER ANY OTHER REMEDY PRESCRIBED BY LAW EXCEED THE PURCHASE PRICE. YOUR RFMOD MODULE IS NOT A SUBSTITUTE FOR PROPERTY, DISABILITY, LIFE OR OTHER INSURANCE OF ANY KIND. APPROPRIATE COVERAGE IS YOUR RESPONSIBILITY. CONSULT YOUR INSURANCE AGENT.

This does not affect your statutory rights.

This device is only suitable for single occupancy private dwellings and not intended for multi occupancy private dwellings or commercial or industrial dwellings.

Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. New regulation will encourage the recycling of Waste from Electrical and Electronic Equipment (European "WEEE Directive" effective August 2005).

Red Smoke Alarms PTY. LTD. reserves the right to change specifications,modify designs and discontinue items without incurring obligation and whilst every effort is made to ensure that descriptions, specifications and other information in this catalogue are correct, no warranty is given in respect of these of and the company shall not be liable for any error therein.

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