red SMOKE ALARMS

INSTRUCTION MANUAL

Model: RWB2
Red Wireless Base with 10 year 3V Lithium Battery Backup and Conduit Adaption
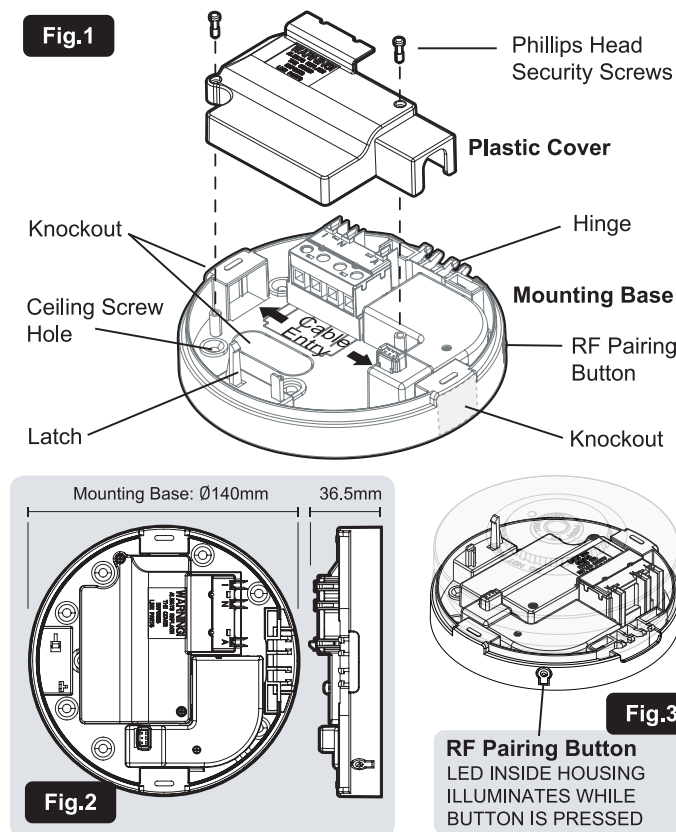
Specifications:

Main Power Source	220-240V ac, 50 Hz
Secondary Power Source	3V Sealed Lithium battery
Operating Current	≤40 mA
Temperature Range	0 °C to 45 °C
Humidity Range	5% to 95%
Interconnecting	Wired/wireless interconnect up to 40 alarms over 150 metres maximum
Transmit Frequency	433.92 MHz
RF Range	100 m free air
	30 m indoors (line of sight)
Terminals	Active, Neutral, Loop and Interconnect terminals each accommodates 2×1.5 mm
Pairing duration	2.5 mins (recount after each success pairing)
Visual Indicators	Red LED for pairing, warning and low battery indication
Approval	AS4268, AS/NZS CISPR 32:2015

Product Description

• The Red Wireless base V2 is specifically engineered for cable/conduit installation, serving as an RF wireless interconnect base intended for use with Red Smoke Alarms R240 and R240RC smoke alarms.
• Not compatible with 3rd party products, systems or fire panels.
• Not compatible with model R10 and R9.
• Achieve wireless interconnection with the RF Lithium Battery powered smoke alarm R10RF.
• This product must be installed by a licensed electrician. Incorrect installation may lead to the risk of fatal electric shock or fire hazard.

Feature

• There are two available side knockouts for conduit surface mount, each with a knockout space measuring 20x22mm.
• There is one internal knockout available for ceiling internal mount, with a knockout space measuring 17x42mm.
• A RF Pairing Button located on the side allows for easy and efficient wireless pairing.
• A plastic cover is provided to prevent any exposure of cables and wires.

Fig.1
Phillips Head Security Screws
Plastic Cover
Knockout
Hinge
Ceiling Screw Hole
Mounting Base
Cable Entry
RF Pairing Button
Latch
Knockout

Fig.2
Mounting Base: Ø140mm   36.5mm

Fig.3
RF Pairing Button
LED INSIDE HOUSING ILLUMINATES WHILE BUTTON IS PRESSED

Wireless Connection Setup Guide:

Pair all alarms before installation on ceiling/wall

RWB2 as Master Pairing Mode

Press and hold the RF Pairing button for at least 5 seconds until the alarms RED LED turns solid.

RWB2 as Slave to connect to a Master

Press the RF Pairing button 2 times quickly, Alarm red LED will flash for 5 times to indicate successfully connection.

1. Select one of the alarm with RWB2 as the MASTER. Treat all other alarms as SLAVE units.

2. On the side of RWB2, press and hold the RF pairing button for at least 5 seconds until RED LED on front illuminates.

3. The unit is now in self-learn pairing mode indicated by the LED on the front of alarm remaining on for a 150 second window.

NOTE: To exit self-learn pairing mode, press the RF pairing button once. The Red LED will turn off.

4. While the MASTER unit's RED LED is on, take the next slave alarm and press the RF pairing button 2 times. The SLAVE alarm LED will flash 5 times indicating successful interconnection.

Note: If the SLAVE units do not flash their LED 5 times, the wireless interconnection has not paired yet, in this case, check that the alarm is 'ON' and that the master is still in self pairing mode, you will only need to pair slave units that were not paired previously.

5. Repeat step 4 on all other SLAVE alarms within 2.5 minutes. Repeat step 3 if required.

6. After pairing all units, press and hold MASTER alarm's Test/Hush button for up to 30 seconds to check that all interconnected units receive the RF signal and alarms sound.

7. Once all alarms are paired, proceed installation to ceiling/wall.

Note: Always use the existing alarm in the RF network as the Master device, and any new additional devices as Slave units.

Clear Pairing Memory

• Press the RF pairing button 5 times, the red LED on the alarm will flash 10 times to clear the alarm's pairing memory, removing it from the network.
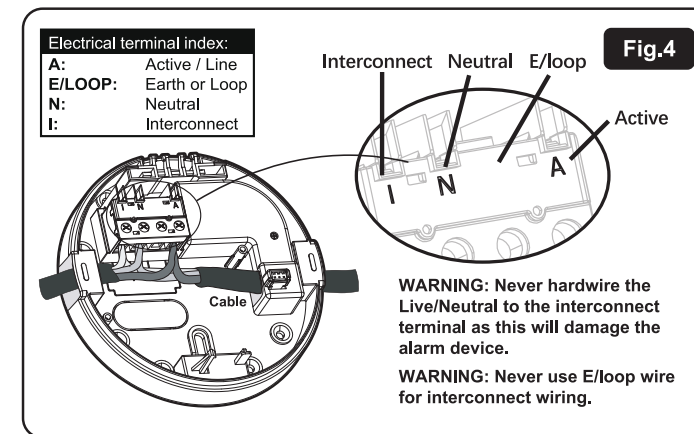
For more help, visit www.redsmokealarms.com.au

Hardwire Installation & Interconnect Guide:

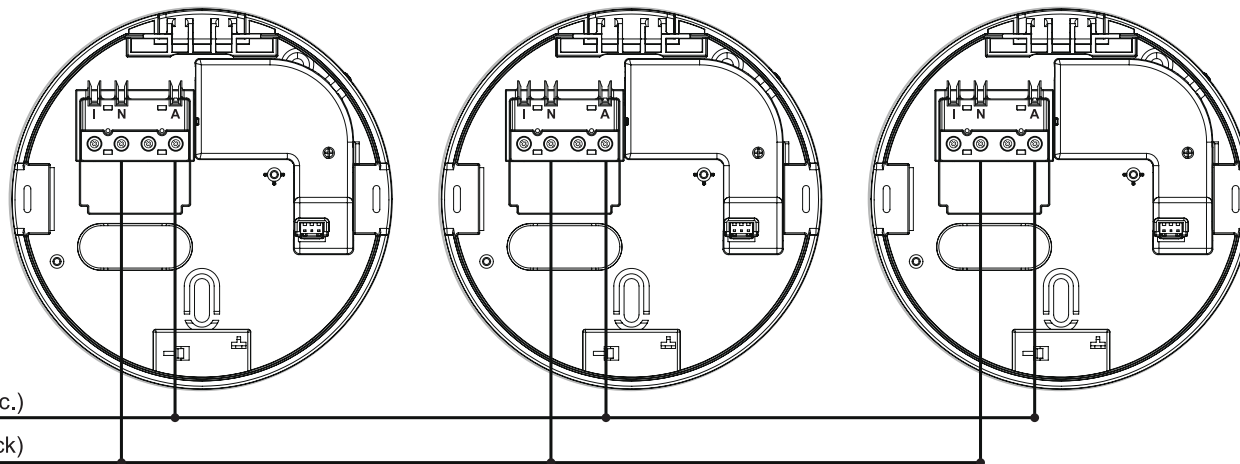WARNING: Please ensure to disconnect the mains power from the circuit.

CAUTION: DO NOT USE IMPACT (ELECTRIC) DRIVERS FOR THE INSTALLATION OF THIS UNIT. FAILURE TO ADHERE MAY RESULT IN DAMAGE TO THE UNIT, CONSEQUENTLY VOIDING THE WARRANTY.

1. Remove the plastic cover, use a screwdriver to loosen both security screws.

2. To surface mount the device with conduit, remove the two side knockouts. Alternatively, for internal ceiling mounting, remove the internal knockout.

3. Securely attach the mounting base to the ceiling using screws and route the house wires through it.

4. Connect the house wires to the terminal block on the mounting base.

Fig.4
Electrical terminal index:
A: Active / Line
E/LOOP: Earth or Loop
N: Neutral
I: Interconnect
Interconnect Neutral E/loop
Active
Cable
WARNING: Never hardwire the Live/Neutral to the interconnect terminal as this will damage the alarm device.
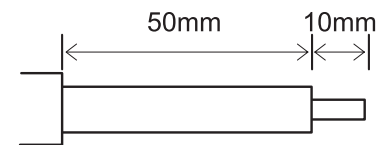WARNING: Never use E/loop wire for interconnect wiring.

Refer to the manual for more details on the correct circuit wiring.

5. Cover all the wires with the plastic cover, use a screwdriver to tighten the plastic cover with the security screws.

6. Attach the Red Smoke Alarm main unit to the hinge of the mounting base by clipping it, and secure the unit by locking it with the latch.

Fig.5

Active (Red)
220-240V a.c.)

Neutral (Black)

Note: Never have hard wire interconnection with multiple RWB2 bases. Multiple RWB2 bases must be connected through RF. RWB2 interconnect terminal is only for connection directly to other smoke alarms and/or heat alarms.

50mm   10mm

NOTICE - EQUIPMENT INSTALLATION COMPLIANCE

Follow National/State Electrical Codes and any local state legislation requirements. Cable sizing must be in accordance with AS/NZS 3000:2018 wiring regulations and adhere to state regulations a minimum of $1.0mm^2$ 250 V.

Interconnect cable on alarms must be SDI cable. (No 4core/ aircon wire to be used) Failure to follow will void warranty.

IMPORTANT - EQUIPMENT INSTALLATION HAZARD

• Only install indoors.
• All interconnected smoke alarms (max 40) must be supplied from the same interconnection. A common Neutral must be from the same interconnection. A common Neutral must be used for the interconnect to operate.
• DO NOT connect the interconnect wire to Active or Neutral.
WARNING: Failure to follow these instructions may result in equipment damage or injury.

CAUTION

• Alternative Energy Sources - (Wind, Solar, UPS etc.) This product is designed to be connected to a Pure or True Sine Wave 230 Vac supply.
• It should not be connected to a power source that utilises an inverter, e.g. PV solar panel, the Total Harmonic Distortion (THD).
• Light Dimmer Circuits – The alarm must not be powered from a light dimmer circuit
• If the Red LED is flashing rapidly (3 times per second) without any sound, it indicates a potential issue with the neutral connection or incorrect wiring.
• Please check wiring and connection of smoke alarms with flashing red LED and rectify wiring issue immediately.
• An optional wireless base [RWB2] may be purchased separately if wired connection is not possible.

Warranty

Red Smoke alarms have a service life of 10 years under normal use. Australian Standards stipulate that smoke alarms must be replaced when the alarm reaches 10 years of age from the manufacture date. Red Smoke Alarms warrants this product to be free from defects in materials and workmanship for a period of ten (10) years from the manufacture date of the alarm. This ten (10) year warranty applies to the first purchaser only - for subsequent purchasers, the warranty is five (5) years from the manufacture date.

The RWB2 base and respective 240v components/alarms must be installed by a licensed electrician in accordance to AS3000. Correct polarity must be maintained throughout the circuit and any mixing of the Active, Neutral or Interconnect wires will damage the alarms. It is recommanded that a dedicated circuit be used for this system and that the core wiring colours used are properly identified and maintained throught the installation.

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

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