red SMOKE ALARMS

INSTRUCTION MANUAL

Model: RWB2
Red Wireless Base V2

Specifications:

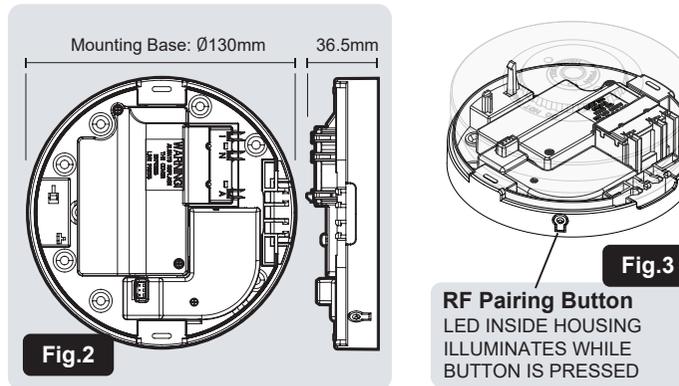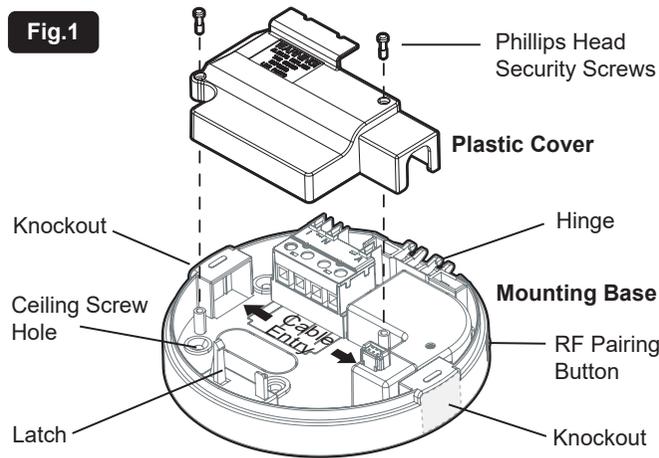|	
Main Power Source	220-240V ac, 50 Hz
Secondary Power Source	3V Sealed Lithium battery
Operating Current	≤40 mA
Temperature Range	0 °C to 45 °C
Humidity Range	5% to 95%
Interconnecting	40 alarms for wireless
	40 alarms over 150 metres maximum
Transmit Frequency	433.92 MHz
RF Range	100 m free air
	30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

Product Description

• The Red Wireless Base is a wireless cable/ conduit mounting base, which is suitable for use with Red Smoke Alarms R240 and R240RC 240V smoke alarms.
• Not compatible with 3rd party products, systems or fire panels.
• Not compatible with model R10 and R9.
• Wirelessly interconnect with the RF Lithium Battery powered smoke alarm R10RF.
• This product must be installed by a licensed electrician. Failure to install correctly can result in a fatal shock or fire hazard.

Feature

• Two side knockout for easy cable or conduit surface mount, the knockout space is 20x22mm.
• One internal knockout for ceiling internal mount, the knockout space is 17x42mm.
• RF Pairing Chips with a RF Pairing Button at side
• 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

Mounting Base: Ø130mm   36.5mm
Fig.2

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

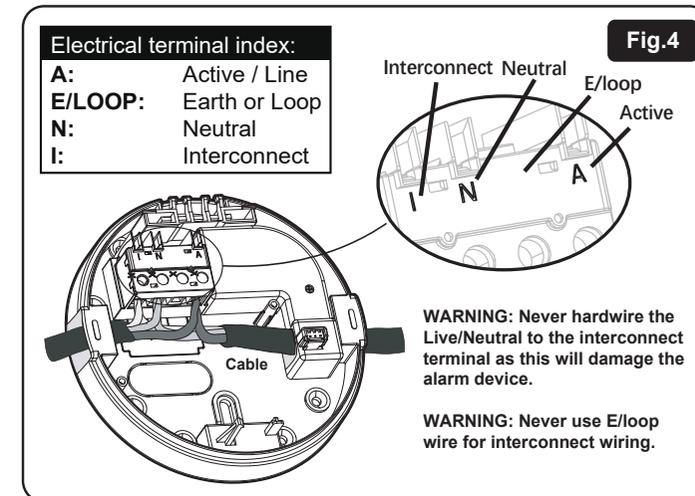## Wireless Connection Setup Guide:

1. Complete installation and turn on the mains power supply.

2. Select one of the wireless bases as the MASTER unit. place the MASTER label near the wireless self-pairing button. Treat all other units as BRANCH units.

3. On the MASTER wireless bases, by hand, press and hold the wireless self-pairing button for 5 seconds. The unit is now in self-learn pairing mode indiciated by the LED remaining on for 2.5 minutes.

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

4. While the MASTER unit's LED is on, pair the BRANCH units by pressing their wireless self-pairing button 2 time squickly (within a second). The BRANCH unit's LED will flash 5 times indiciating successful interconnection.

NOTE: If a BRANCH UNIT does not flash its LED 5 times, the wireless connect has failed. In this case, check that the MASTER unit's LED remains ON and is still in self pairing mode while pairing the BRANCH unit. Make sure only one unit is the MASTER, and all others are subordinate BRANCH. Previously paired unit do not have to be paired again if activating master self-pairing mode again.

5. Repeat step 4 on all other BRANCH units.

6. After all units has been paired, exit self-pairing mode on the master unit, then press and hold the MASTER unit's Test/Hush button until all other wireless RF interconnect units alarm sound (all units may take some time to sound.)

Hardwire Installation & Interconnect Guide:

WARNING: First disconnect the mains from the circuit to be used.

1. Remove the plastic cover by using a screwdriver to loosen both of the security screws.

2. Remove the two side knockout for cable or conduit surface mount, or remove the internal knockout for ceiling internal mount.

3. Screw the mounting base to the ceiling and bring the house wires through it.

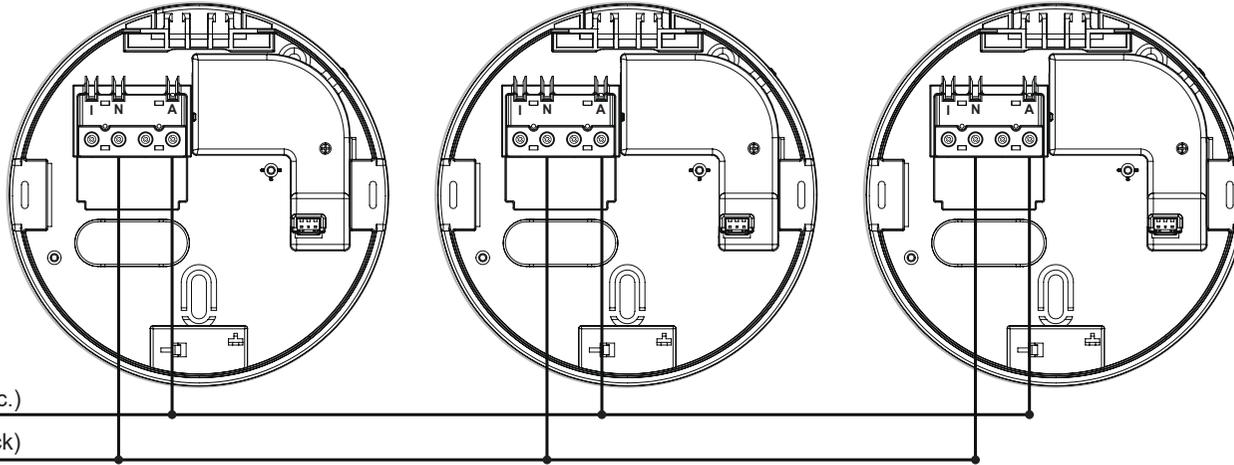4. Connect the house wires to the terminal block on the mounting base.

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. Clip the Red Smoke Alarm main unit to the hinge of the mounting base and lock the unit by clipping the latch.

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.
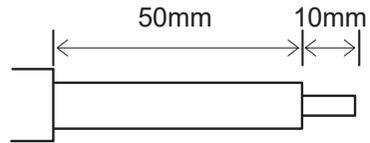
Fig.5

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

Neutral (Black)

Note: Never have hard wire interconnection with multiple RWB bases. Multiple RWB bases must be connected through RF.
RWB 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.

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 Alarms must not be powered from a light dimmer circuit
• Red LED flashes very quickly (3 times per second) without sound. This means neutral connection is bad or wiring is incorrect.
• Please check wiring and connection of smoke alarms with flashing red LED and rectify wiring issue immediately.
• An optional wireless base [RWB] 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.