

Protect your Family First®

FFPACHI

220-240VAC 50 Hz, <100mA
PHOTOELECTRIC SMOKE ALARM
WITH 9 VOLT BATTERY BACKUP &
TEST/HUSH BUTTON



SUITABLE FOR SINGLE
(STAND ALONE) OR
INTERCONNECTED



Australian
Standard
AS3786:2014
Lic SMKH25550
SAI Global



SPECIFICATIONS:

Detection Type	Photoelectric Chamber
Power Source	AC220~240V 50Hz with 9V backup battery
Operating Current	<100mA
Alarm Sound Level	>85dB at 3 metres
Alarm Sensitivity	0.09~0.15dB/m
Hush & Test function	use the same button
Hush Period	Approx. 8 minutes
Interconnection	Up to 12 smoke alarms
Battery Type	6F22 (9V battery)
Battery Life	At least 1 year
Operation Temperature	5°C to 45°C
Ambient Humidity	up to 85%
Sound Pattern	
ISO8201 (BI0.5s - pause 0.5s - BI 0.5s - pause 0.5s - BI 0.5s - pause 1.5s, with the Red LED Indicator flashing, repeat this alarm pattern).	
Standard Compliance	AS3786:2014

The unit is an AC220~240V photoelectric smoke alarm with a 9V DC backup battery. Photoelectric technology is more sensitive to detecting slow smouldering fires which are generally thick with black smoke, little heat and may smoulder for hours before bursting into flames. This smoke alarm does not contain radioactive material.

IMPORTANT: This manual contains important information about the installation and operation of your smoke alarm. Please read carefully before installation and keep for future reference. Please ensure that this leaflet remains in the household where the alarm is installed.

WARNING: This smoke alarm is designed to alert you to the presence of smoke. It cannot prevent a fire. There are hazards against which smoke alarms may not be effective such as smoking in bed, explosions, etc. The ultimate responsibility for fire protection rests with you. This responsibility includes escape planning, safety checks and an effective warning system. In case of fire, a well-placed, properly looked after smoke alarm may provide a few seconds so that you can escape and call the fire brigade.

LIMITATIONS: Loss of AC power will render this smoke alarm inoperative unless the 9V backup battery is installed in the unit. Never paint the smoke alarm. The smoke alarm has a service life of ten years under normal use. We recommend you replace it within no more than ten years.

IMPORTANT SAFETY INFORMATION

1. The Test button accurately tests all smoke alarm functions. **DO NOT** use any other test method. Test smoke alarm weekly to ensure proper operation.

2. **DO NOT** remove or disconnect battery to silence unwanted alarms. This will remove your protection if AC power is lost. Open windows or ventilate the smoke alarm to silence it.

3. **DO NOT** expose the smoke alarm unit or any of the electrical cabling to any type of liquid substances such as water (a splashing or dripping substance onto or into the unit may render the unit defective). **DO NOT** place any object filled with any liquid substance/s on the smoke alarm unit.

4. **DANGER:** This smoke alarm is powered by AC 220 ~ 240V. Exposure to live mains power is DANGEROUS and incorrect use can be FATAL. **This smoke alarm MUST be installed by a licensed and qualified electrician. Observe and follow all local and national electrical and building codes for installation.**

5. This smoke alarm is suitable for use with non-pure sine curve power sources (e.g. derived from square wave invertors).

6. This smoke alarm is designed to be used inside a single unit dwelling only. In buildings with several dwellings, each individual living unit should have its own smoke alarms. **DO NOT** install in non-residential buildings. This smoke alarm is not a substitute for a complete alarm system.

7. Install a smoke alarm in every room and on every level of the home. Smoke may not reach the smoke alarm for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall and roof or on the other side of a closed door, smoke may not reach the smoke alarm in time to alert household members. A smoke alarm will not promptly detect a fire except in the area or room in which it is installed.

8. Smoke alarms may not alert every household member every time. The alarm sound is loud in order to alert individuals to a potential danger. However, there may be limiting circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, drug or alcohol usage, hard of hearing, etc.). If you suspect that this smoke alarm may not alert household members, install and maintain specialty alarms. Household members must hear the alarm's warning sound and respond, to quickly reduce the risk of damage, injury or death that may result from fire. If a household member is hearing impaired, install special smoke alarms with lights or vibrating devices to alert occupants.

9. Smoke alarms can only sound their alarms when they detect smoke. Smoke alarms detect combustion particles in the air. They do not sense heat, flame or gas. This smoke alarm is designed to give an audible warning of a developing fire. However, many fires are fast burning, explosive or intentional. Others are caused by carelessness or safety hazards. Smoke may not reach the smoke alarm quickly enough to ensure safe escape.

10. Smoke alarms have limitations. This smoke alarm is not foolproof and is not warranted to protect lives or property from fire. Smoke alarms are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the smoke alarm to fail at any time. For this reason, you must test the smoke alarm weekly and replace every 10 years.

NOTE: For best protection, we recommend that you install a smoke alarm in every room.

WHERE TO INSTALL YOUR ALARM

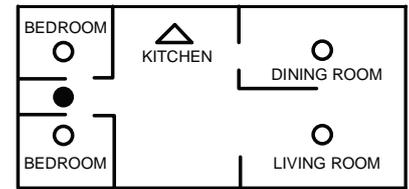
For best safety, install smoke alarms in every room: Including hall, bedrooms, living rooms, attics & basement. At the very least, install one smoke alarm on every floor.

Smoke, heat and other combustion products rise to the ceiling and spread horizontally. Mounting the smoke alarm on the ceiling in the centre of the room places it closest to all the points in the room. Ceiling mounting is preferred in ordinary residential construction. However in mobile homes, wall mounting on an inside partition is preferred to avoid the thermal barrier that may form in the ceiling.

IMPORTANT SMOKE ALARM PLACEMENT

Typical single-storey home

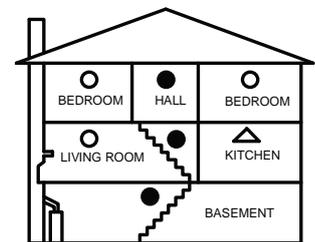
Install a smoke alarm on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area or hallway is more than 9 metres long, install a smoke alarm at each end. If there is a basement, install a smoke alarm on the basement ceiling at the bottom of the stairwell.



SINGLE-STOREY RESIDENCE, APARTMENT, MOBILE HOME

Typical multi-storey or split level home

Install a smoke alarm on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area or hallway is more than 9 metres long, install a smoke alarm at each end. Please install a smoke alarm on the top of a first-to-second floor stairwell.



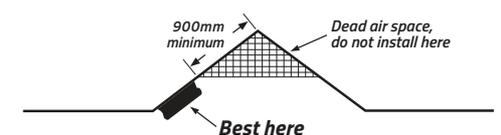
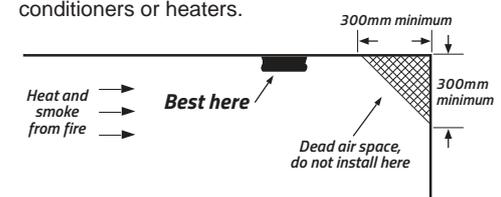
MULTI-STOREY RESIDENCE

KEY:

- Minimum required smoke alarm locations
- Recommended additional smoke alarm locations
- △ Smoke alarms with hush features recommended for additional protection

IMPORTANT SMOKE ALARM PLACEMENT AND EXCEPTION INFORMATION

1. Place as close as possible to the centre of the ceiling and no closer than 300mm to any wall or corner.
2. Install a smoke alarm in each room that is divided by a partial wall.
3. Install a smoke alarm in lived-in attics or attics which house electrical equipment like furnaces, air conditioners or heaters.



WHERE NOT TO INSTALL SMOKE ALARMS

1. In areas near appliances or where normal combustion regularly occurs (near furnaces, hot water heaters).
2. In areas with high humidity like bathrooms, near dishwashers or washing machines. Install at least 3 metres away from these areas.
3. Air returns or heating and cooling supply vents. Install at least 900mm away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
4. In rooms where temperatures may fall below 5°C or rise above 45°C or in rooms where the humidity rises above 85%.
5. In extremely dusty, dirty, or insect-infested areas where loose particles interfere with smoke alarm operation.
6. Near fluorescent lights. Electronic 'noise' may cause nuisance alarms.
7. Smoke alarms are not to be used with detector guards. Unless the combination (alarm and guard) has been evaluated and found suitable for that purpose.

WARNING: Incorrect orientation will result in a decrease in operational effectiveness.

INSTALLATION INSTRUCTIONS

IMPORTANT: This smoke alarm must be installed by a licenced electrician. Turn off AC power during installation. Before installing this smoke alarm ensure that there is no electrical cabling or plumbing piping that will interfere with the installation process. **Use an appropriate fastening system to secure the mounting bracket to the substrate.**

WARNING: To prevent injury this unit must be securely attached to the wall or ceiling in accordance to the installation instructions.

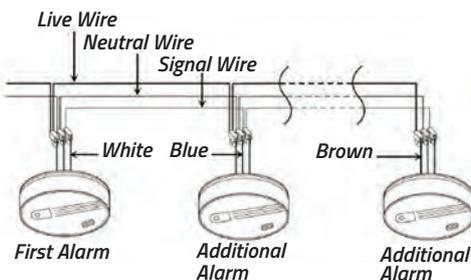
WIRING

- The smoke alarm will function either stand alone or interconnected.
- All interconnected smoke alarms must be supplied from a single power circuit.
- This smoke alarm can be connected to a circuit protected by a Residual Current Device.
- Connect and power the smoke alarm with 220 ~240VAC single phase.
- Solid wires with 1mm² (or larger) cross sectional area are recommended for power supply and inter-connection. Strip the live, neutral and interconnection wires back to the length of 10mm. Connect the AC quick connector to the fixed wiring in accordance with the requirements of AS/NZS 3000. The colours of the wires are: live = brown, neutral = blue and inter-connect = white.
- The smoke alarm device shall be provided with an all-pole mains switch from a circuit within the household consumer unit. The all-pole mains switch shall have a contact separation of at least 3 mm in each pole.
- All interconnected smoke alarms must be supplied from a single circuit. It is recommended that a maximum of 12 smoke alarms may be interconnected in a multiple station arrangement. Interconnecting more than 12 smoke alarms may result in a power overload.

DO NOT CONNECT TO OTHER MODEL SMOKE ALARMS.

- The diagram below illustrates interconnection wiring, an incorrect connection may result in damage to the alarm, failure to operate, or a shock hazard. Connection to a fixed wiring in accordance with AS/NZS 3000 wiring rules (find out max distance between first and last interconnected smoke alarm).

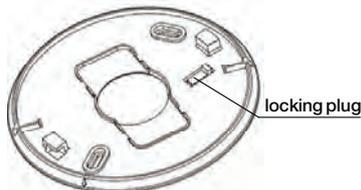
- The wire on the alarm harness is connected to:
Brown wire – Live wire of AC line
Blue wire – Neutral wire of AC line
White wire – I/O signal as interconnect line of other units in the multiple station set up.



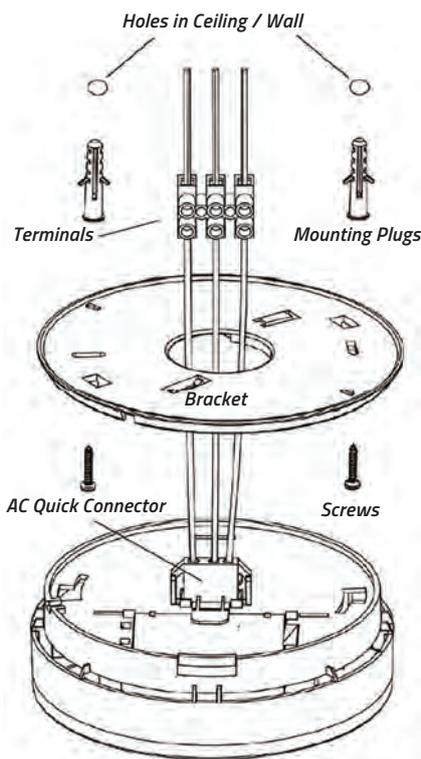
DO NOT connect White inter-connection wire to live or neutral.

Mounting Instructions:

1. After selecting the proper location for your smoke alarm, wire the AC quick connector harness as described in the wiring instructions.
2. Turn the alarm body counter-clockwise and take off the bracket.
3. If desired to lock the alarm in place, remove the locking plug from the bracket with a screwdriver, and keep aside for step 10.



4. Place the mounting bracket on the ceiling surface or wall and use a pencil to mark the position of the mounting holes and the hole through which to bring the electrical wiring to the smoke alarm.
5. Move the mounting bracket and drill the two small holes and the larger one. **Use an appropriate fastening system to secure the mounting bracket to the substrate**



6. Insert the battery into the battery box. Connect the AC quick connector to the alarm body.

7. Fit the alarm to the bracket and turn the alarm clockwise until it is firmly in place.

8. If desired, insert the locking plug saved from earlier into the square gap on the side of the alarm to lock it into place.

9. Turn on the AC power. The green LED indicator should light up showing that the alarm is connected to AC mains power.

10. Test the smoke alarm by pressing and holding the Test button. See 'Testing the Smoke Alarm' below.

11. To prevent injury, ensure the smoke alarm unit is securely attached to the ceiling in accordance with the installation instructions.

OPERATION, TESTING AND MAINTENANCE

LED Indicators

GREEN: The green LED indicator shows that the smoke alarm is connected to AC power.

RED – NORMAL: The red LED indicator flashes once every 32 seconds when there is no smoke present indicating the alarm is working properly.

RED – ALARM: The red LED indicator flashes once per second when the Test button is pressed or the smoke alarm is activated.

RED – HUSH: The red LED indicator flashes once every 8 seconds whilst the smoke alarm is in Hush mode.

LOW BATTERY INDICATOR: Occurs when the smoke alarm sounds a chirp and flashes the RED LED Indicator once every 32 seconds for a minimum of 7 days. This indicates the battery is low refer to Battery Replacement. Ensure the battery is replaced as soon as possible.

FAULT: Occurs when the unit generates a 'chirp' once every 32 seconds. This indicates that the smoke alarm has a fault (refer to Troubleshooting section).

Testing the Smoke Alarm

Test the smoke alarm weekly and when replacing the 9V backup battery. Testing the smoke alarm will ensure that the circuitry, horn and battery are operating correctly. To test the smoke alarm, press and hold the Test button for at least 10 seconds. The alarm will activate with a flashing RED LED indicator and sound three short beeps then a short pause. This continues until the Test button is released. If no alarm sounds, refer to the troubleshooting section to seek further assistance.

Alarm HUSH mode

The Hush function is designed to silence false alarms. During a false alarm, press the Test button for at least 5 seconds and the alarm will silence for approximately 8 minutes. After this period, the smoke alarm will return to normal operation. Should more particles of combustion continue to be detected, the alarm will activate again. If particles of combustion are still present after the Hush period, the alarm will sound again until the area clears. If there are frequent false alarms, it may be necessary to relocate the device away from the cause. If the alarm continues sounding false alarms without smoke, heat or steam present, it may require maintenance or cleaning. Refer to the troubleshooting section for further assistance.

WARNING: If the smoke alarm sounds and it is not being tested, the smoke alarm is quite likely sensing smoke. This should not be ignored and the alarm requires your immediate attention and action.

NOTE: If an alarm sounds and there is no sign of smoke, heat or noise to suggest a fire, you should get your family to a safe place before investigating. Check the household carefully in case there may be a fire smouldering out of sight, or if there is another source of smoke or fumes such as cooking fumes being drawn past a smoke alarm by an extractor.

WARNING: Always turn off AC power before any maintenance work is carried out. When ALL maintenance work is complete only then can AC power be turned back on.

MAINTENANCE

WARNING: DO NOT try to disassemble this smoke alarm, as it may damage or impede its operation. No user serviceable parts are inside. The warranty will become void if misuse or abuse is apparent. This 10 year warranty is also conditional on this unit being installed by a licensed electrical contractor in accordance with local building codes.

The smoke alarm is virtually maintenance free. However, over time dust can build-up or dusty conditions can reduce the alarm's sensitivity in detecting fires. Use a vacuum hose to clear dust through the side opening. It is recommended to clean the alarm monthly to ensure the alarm is operating correctly. Normally, the alarm can be operated up to 10 years without replacement. To see the date of replacement refer to the back of the alarm unit.

BATTERY CONNECTIONS

The backup power of this smoke alarm is provided by one 9V DC battery. The battery should last for at least 1 year under normal operating conditions. The smoke alarm has a low battery indicator, an audible 'chirp' which operates in 32 second intervals for a minimum of 7 days. Replacement of the battery should occur as a minimum once per year and when the smoke alarm low battery indicator 'chirps' as per above. Only the following 9V DC batteries (which are available at hardware or electronic parts stores) may be used for replacement.

BATTERY SPECIFICATIONS

Voltage: DC 9V

Gold Peak: GP1604S (carbon zinc battery)

Gold Peak: GP1604A (alkaline battery)

Raymax : 6LR61 (alkaline battery)

EVE: CR9V/P (lithium battery)

WARNING: DO NOT use any other type of battery other than as specified in this manual. DO NOT use rechargeable batteries. Remove any packaging such as plastic wrap from the battery.

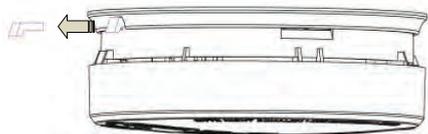
CAUTION: If the battery is incorrectly replaced, the smoke alarm will not operate and may cause damage.

BATTERY REPLACEMENT

To replace the battery follow the procedure below:

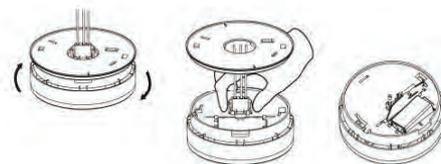
WARNING: AC Power should be turned off during this process.

1. Remove the locking plug between the bracket and the bottom cover. (If inserted in installation).



2. Remove the alarm body from the bracket.

3. Squeeze the locking arms on the sides of the AC quick connector while pulling the connector away from the bottom of the alarm.

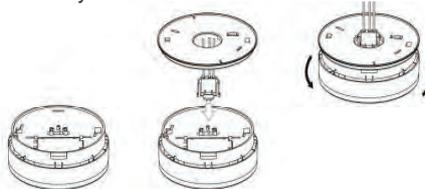


4. After the alarm has been removed, open the battery cover and replace with a new battery.

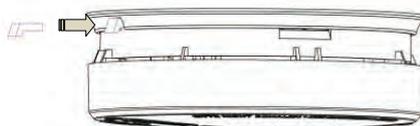
5. Close the battery cover.

6. Plug the AC quick connector into the back of the smoke alarm, making sure that the locks on the connector snap into place.

7. Fit the alarm body to the bracket and turn the alarm body clockwise.



8. Insert locking plug back into the square gap on the side of the alarm to lock it into place.



9. Turn on the AC power (the Green LED indicator should light up) then test the smoke alarm using the Test button (refer to Testing instructions).

10. The unit will enter into an 8 minute Hush mode. During this time, the Red LED Indicator will flash once every 8 seconds. After the Hush period of 8 minutes the smoke alarm will return to a normal operating mode and flash once every 32 seconds. Should the Test button be pressed and no audible sound is heard (refer to Troubleshooting section).

TROUBLESHOOTING

Problem 1

The GREEN LED indicator does not light-up when the AC power supply is connected to the smoke alarm.

Remedy 1

Make sure the AC quick connector is secured properly to the smoke alarm. Ensure the AC power is turned on. Have a qualified technician attend to assess power supply. If the above steps have not worked return the smoke alarm to the place of purchase for replacement (if within warranty period) or purchase another smoke alarm.

Problem 2

The smoke alarm does not sound when Testing (make sure you hold the test button for at least 10 seconds).

Remedy 2

Make sure the AC quick connector is secured properly to the smoke alarm. Ensure the AC power is turned on. Have a qualified technician attend to assess the power supply. Clean the smoke alarm (refer to the Maintenance section). If the above steps have not worked return the smoke alarm to the place of purchase for replacement (if within warranty period) or purchase another smoke alarm.

Problem 3

The smoke alarm chirps with a red flash once every 32 seconds.

Remedy 3

This indicates the battery is low. Refer to the battery replacement section.

Problem 4

The smoke alarm chirps every 32 seconds (the alarm is in fault mode).

Remedy 4

Clean the smoke alarm (refer to the maintenance section). If after cleaning and testing, and the chirp remains, return it to the place of purchase for replacement (if within warranty period) or purchase another smoke alarm.

Problem 5

The smoke alarm sounds nuisance or false alarms intermittently, or when residents are cooking or showering.

Remedy 5

Hold the test button for at least 5 seconds to hush the alarm (identify the source of nuisance or unwanted alarm first). Clean the smoke alarm (refer to the maintenance section). If the unwanted or nuisance alarms remain, relocate the smoke alarm to a more suitable location. If the above steps have not worked return the smoke alarm to the place of purchase (if within warranty period) or purchase another smoke alarm.

Problem 6

The alarm's sound pattern sounds different to sound pattern during normal operation.

Remedy 6

Clean the smoke alarm (refer to the maintenance section). If the smoke alarm continues to sound different sound patterns that are not listed within this manual return to the place of purchase for replacement (if within warranty period) or purchase another smoke alarm.

NOTE: If the smoke alarm fails to operate correctly the advice of the supplier should be sought.

WHAT TO DO IN CASE OF A FIRE

- If there is a fire in your home, the precautions described will increase your chance of escaping safely. The following rules should always be highlighted during fire drills so that they are remembered in the case of a real emergency.
- Stay calm and think clearly about the pre-arranged escape plan.
- Leaving the house as soon as possible following the planned escape route. Do not stop to collect personal belongings.
- Check doors to see if they are hot. If the door is hot, do not open it – use another escape route.
- Keep all doors and windows shut, only open as a means of escaping.
- Smoke rises, so keep close to the floor – if necessary crawl.
- Take short breaths and if possible, cover your mouth and nose with a wet cloth.
- Make your way to the pre-arranged meeting point and call the fire brigade. Give your full name and address.
- Never re-enter a burning house. For further information on fire safety and prevention, contact your local fire prevention officer.

10 YEAR WARRANTY

The smoke alarm is warranted to be free from defects in materials and workmanship for ten (10) years from the date of purchase and is not transferable under normal use. The warranty does not cover natural disasters such as fire, flood, hurricanes and tornados. Warranty is conditional on the smoke alarm being used in the normal way and not being modified or subject to attempted repairs or contamination.

The warranty excludes the battery, incidental and consequential damages. Your statutory rights as a consumer are in no way compromised by this warranty. Master Distributors Pty Ltd agrees to repair or replace, at its option, any defective smoke alarm provided it is returned personally or by prepaid delivery with a copy of proof of purchase. This warranty does not cover damages resulting from lack of reasonable care of the product.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Subject to those non-excluded rights and provisions and the above warranty, Master Distributors Pty Ltd will not be liable for injury to persons, damage to property, or for any direct or indirect or consequential damage as a result of negligence or fault on the part of Master Distributors Pty Ltd or it's servants, agents, suppliers and contractors or otherwise arising out of or resulting from, whether directly or indirectly, the use, installation or maintenance of the smoke alarm and any warranties or representations are excluded unless given by Master Distributors Pty Ltd in writing. Please leave this document, or a copy, for the end user

TEST  ALARM
YOUR FREE TEST ALERT SERVICE

REGISTER ONLINE AT TESTALARM.COM.AU

Test Alarm is a convenient free reminder service to let you know when your smoke alarm and other fire protection products are due for testing or need to be replaced.

All smoke alarms (smoke detectors), fire extinguishers and fire blankets have limited lives, must be tested and checked regularly, and replaced eventually. Thanks to Test Alarm smoke alarm reminder service, you can be reminded to do all those tests and keep yourself and your family safe.

Test Alarm will send you an e-mail notification (as often as you nominate) to remind you that testing and checking must be performed. You may choose to opt-out at any time, however maintaining your subscription with Test Alarm reminders will help you keep your family safe.

Visit www.testalarm.com.au

In an
emergency dial:

Australia

000

New Zealand

111

www.family-first.com.au

Please dispose of product packaging thoughtfully.



31 Dunlop Road Mulgrave Victoria 3170
Ph 03 9538 9200 Fax 03 9538 9299
sales@masterdistributors.com.au
www.masterdistributors.com.au

04072017