



Zimi Smoke Connect ZSC-MW

Smoke Alarm. Photoelectric.
220-240V AC. Lithium Battery.
Wireless Ready.

User Guide



Welcome

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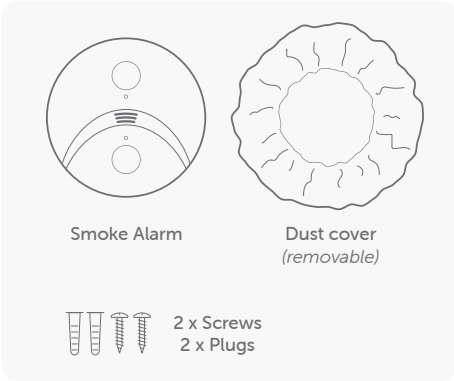
Overview

The Zimi Smoke Connect (ZSC-MW) is a photoelectric mains wired smoke alarm with a 7 year lithium battery and wireless ready capability.

Scan the QR code to learn more.



In The Box



Safety first

Warning:

These instructions contain important information on the correct installation and operation of your smoke alarm, read them fully before attempting installation and retain them for future reference.

- This product must only be installed and serviced by an appropriately qualified electrician.
- Observe and follow all local and national electrical and building codes for installation.
- This product must only be used for the purpose described in these instructions and must be installed in accordance with the wiring rules and regulations in local region.
- Hazardous voltage may be presented at the wire leads of this product.
- Disconnect the AC power before installing or removing the smoke alarm.
- Ensure that the product has been correctly installed and tested for safe operation before reconnecting the electrical supply.
- DO NOT connect the interconnection wire to Active or Neutral.
- A non-pure sinusoidal power source is not suitable for this smoke alarm (e.g. derived from square-wave inverters).
- The apparatus shall not be exposed to steam or splashing. Ensure that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Failure to follow these instructions may result in death or serious injury.

Caution

The sound of the alarm requires your immediate attention and action.

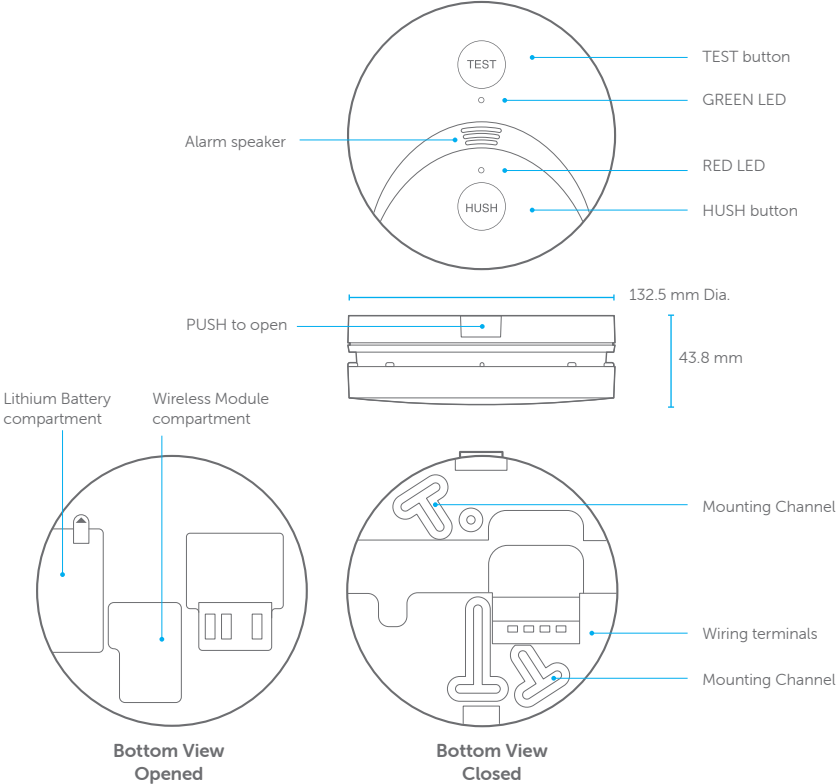


If the alarm sounds, and it is not being tested, it means the unit detected smoke.

- Before using the silence function, identify the source of the smoke and ensure conditions are safe. After being 'silenced' the unit will resume normal operation after 10 minutes silence.
- DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and result in a fire.
- Pull out the yellow insulation tab in the battery compartment before installing the smoke alarm, or the smoke alarm will not work properly.

Smoke Connect MW

Figure 1



Specifications

Main Power Source	220-240 V AC/50 Hz
Secondary Power Source	DC 3V battery: Pairdeer CR17450 or Huiderui CR17450
AC Operating Current	<100mA
Interconnecting	Wired : Maximum 24 x Smoke Connect MW (ZSC-MW) (150m maximum interconnect wire length) Wireless : using optional Smoke Connect Smart Wireless Module (ZSC-SS) with up to 7 Smoke Connect RF (ZSC-RF) units paired.
Operating Temperature	0 °C to 40 °C
Ambient Humidity	≤ 93%
Alarm Sensitivity	0.122-0.182 dB/m
Alarm Volume	≥ 85dB(A) @ 3m
Sound Pattern	ISO8201(BI 0.5s - pause 0.5s - BI 0.5s - pause 0.5s - BI 0.5s - pause 1.5s, with the RED LED flashing, repeat this alarm pattern)
Comply with	AS3786:2014

Using the smoke alarm

Event	Indication	Description
EMERGENCY		
Smoke alarm	The RED LED flashes every second with alarm sound.	Alarm sounds when smoke is detected.
Interconnection alarm	ALARM sounds without RED LED flashing.	The unit will sound the alarm when an interconnected alarm is triggered.
NORMAL OPERATION		
AC power indication	The GREEN LED illuminates continuously.	The unit is receiving AC power.
Standby status	The RED LED flashes every 40 seconds.	The unit is working.
SILENCE THE ALARM		
Hush Mode 10 minutes	The RED LED flashes every 8 seconds.	<p>Press the HUSH button to silence the alarm for 10 minutes.</p> <ul style="list-style-type: none">If cooking or other non-hazardous sources cause the alarm to sound, 'hush mode' can be activated to silence the alarm by pressing the HUSH button.
Do Not Disturb 10 hours	The RED LED flashes every 40 seconds.	<p>Press the HUSH button to silence the alarm for 10 hours.</p> <ul style="list-style-type: none">If the unit detects a low battery or fault mode pressing the HUSH button will stop the CHIRP warning sound for 10 hours.

Function	Indication	Description
TESTING		
Alarm test	RED LED flashes once every second with ALARM sounding until the TEST button is released.	<p>Press and hold the TEST button for at least 5 seconds to test the alarm function.</p> <ul style="list-style-type: none">The alarm will sound if the smoke alarm is functioning correctly.If no alarm sounds, refer to "Troubleshooting".
FAULTS & WARNINGS		
Alarm Memory Mode	RED LED flashes twice every 20 seconds.	Shows that the alarm has detected smoke within the last week.
Low battery warning	CHIRPS with RED LED flashing every 40 seconds.	The battery voltage is too low. Replace the battery.
Fault warning	CHIRPS between the RED LED flashing two times.	The unit is faulty. Refer to "Troubleshooting".
End of Life	CHIRPS between the RED LED flashing two times.	<p>The unit sends End of Life warning after 10 years.</p> <p>The alarm does not detect smoke or sound the alarm in this state.</p> <p>Replace with a new smoke alarm.</p>

Recommended Locations

Always follow the Building Code of Australia and local building codes when installing smoke alarms for compliance and optimal performance.

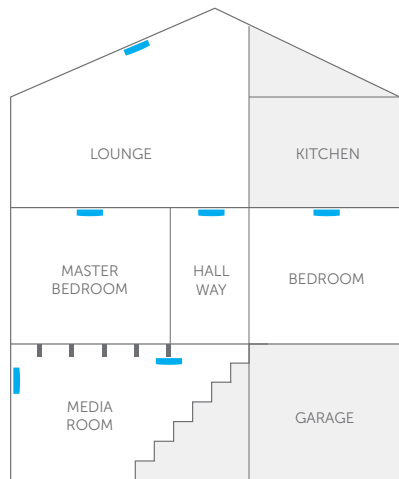


Figure 1

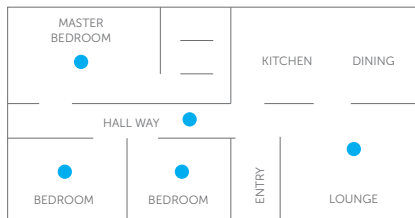


Figure 2

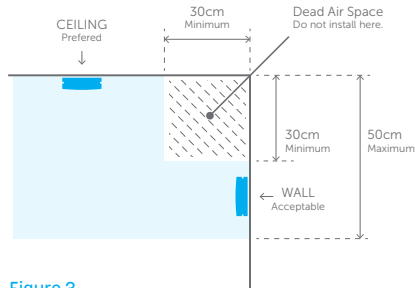


Figure 3

Homes and Residential

- Mount alarms close to the centre of rooms, ideally on the ceiling for residential settings (see Figure 2).
- Prioritise placement near sleeping areas, bedrooms, and paths leading to exits.
- For hallways longer than 9 metres, install alarms at both ends.
- On ceilings, position alarms at least 300mm away from walls or corners (see Figure 3).
- Install alarms in rooms where electrical appliances are used.
- Refer to Figures 1 - 5 for recommended locations.

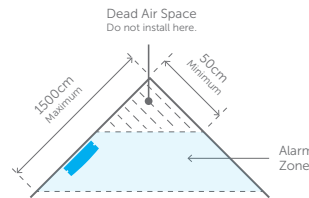


Figure 4

Wall Mounting

- Use the inside wall of the room.
- Position them between 300mm and 500mm from the ceiling (see Figure 3).

Angled Ceilings

- Place at least 500mm away from the apex.
- No greater than 1500mm from the apex.
- (see Figure 4).

Multi Storey

- Install alarms on every floor level.
- Recognise stairwells as potential smoke channels where alarms should be fitted.

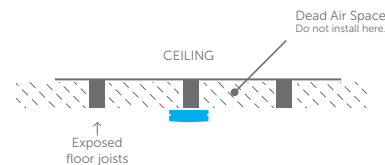


Figure 5

Locations to avoid

High Airflow

Keep away from air-conditioner ducts and appliance or heater outlets. Do not place within 1 metre of such outlets to avoid the risk of false or nuisance triggers.

Kitchen Areas

Avoid due to potential false alarms from cooking fumes, smoke or heat particles. (see Figure 1 & 2).

Humidity & Temperature

Avoid damp or extremely humid areas (humidity >90%). Avoid areas with temperature variations below 0°C or above 40°C. This can affect performance and battery life.

Dead Air Space

Avoid areas where smoke might not reach the alarm. Install more than 500mm away from the peak of an 'A' frame and not between exposed floor joists (see Figure 3, 4 & 5).

Garages

Avoid garages due to vehicle engine emissions causing nuisance triggering.

Environmental Factors

Avoid dusty zones or those prone to insect infestation to reduce nuisance triggering or premature unit failure.

Electronic Interference

Avoid mounting near other electrical devices or fluorescent lights to prevent false triggers from electromagnetic interference.

Interconnect Caution



- All interconnected smoke alarms must be connected on the same electrical circuit, with a common Neutral wire.
- MAX. Wired Interconnected alarms: 24.
- MAX. Wiring length between first and last alarm: 150m for interconnect.
- DO NOT connect the interconnect wires to Live or Neutral.
- Observe and follow all local and national electrical and building codes for installation.
- Use a minimum of 1.0 mm² 250V insulated wire for all wiring, including interconnecting wiring.

Installation

Mains Wired And Interconnected Alarm Installation

1. Plan out and select the appropriate locations for the alarms to be installed following building code or local requirements and all workmanship must follow AS/NZS3000.
2. Mark out positions and install ceiling plugs and create holes for cabling.
3. Follow wiring instructions on next page.
4. Insert the battery, remove the yellow tag and close the alarm.
5. Refer to Figure 6.

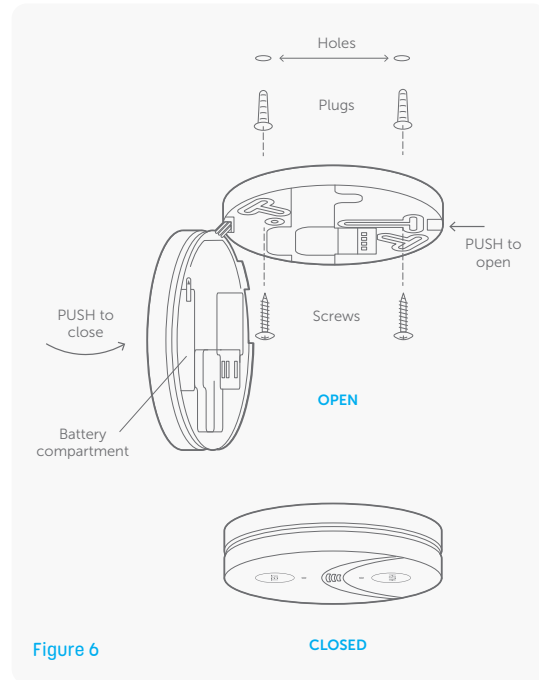


Figure 6



Warning: To prevent injury, this unit must be securely attached to the ceiling in accordance with the installation instructions.

Wiring

1. Isolate power and establish required mains wired circuit to the locations for the alarms and connect to the appropriate terminals on the rear of the units.
2. If more than one alarm is used, then the alarms must be interconnected either using the link wire on the I-Connect terminal (refer Figure 7) or using a Smart Wireless Module (ZSC-SS). (See page 13.)

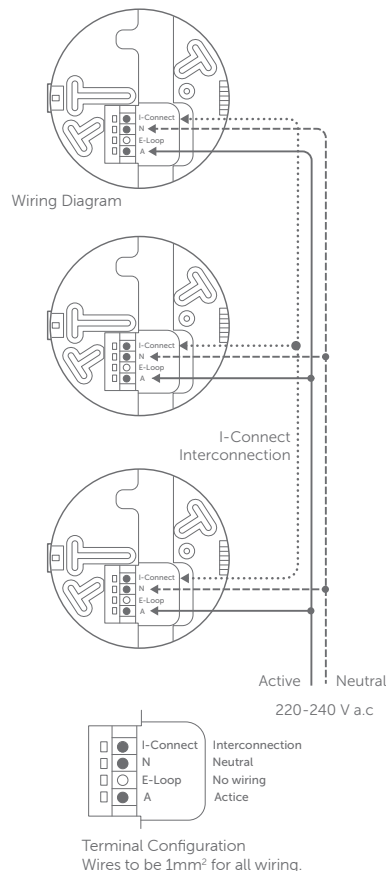


Figure 7

Smart Wireless Module

Installing The Optional Smart Wireless Module (ZSC-SS)

1. Prior to installation determine if there is a need for the use of wireless alarms in the network.
2. This module can be installed into the SMOKE CONNECT MW (ZSC-MW) by first disconnecting the power and opening one of the mains powered alarms and disconnecting the battery, (if yellow tag has already been removed for battery to connect, then remove the battery from alarm), replace the blank housing with the SMOKE CONNECT SS (ZSC-SS) - smart wireless module (refer Figure 8).
3. The SMOKE CONNECT RF (ZSC-RF) communicates at 433.42MHz and can operate at range greater than 60m.
4. With the power off select the mains wired alarm (ZSC-MW) with the smart wireless module installed (ZSC-SS) to be used for pairing. Caution: Only install one pluggable SMOKE CONNECT SS module into a group of mains wired interconnected alarms. If there is more than one installed with wired connections, it will not work.
5. Insert the battery, remove the yellow tag and close alarm. The alarm will automatically search for the module after being closed. The RED LED

flashes continuously while the unit checks if the module is installed.

6. If the module was not installed correctly, or otherwise not recognised by the alarm, the RED LED will extinguish after 8 seconds, no beeps will be heard, and the RED LED will not flash twice every 8 seconds.
7. Turn ON Mains power
8. To test the alarms, press the TEST button for at least 2 seconds. The unit will alarm, and the light will flash for as long as the TEST button is pressed.

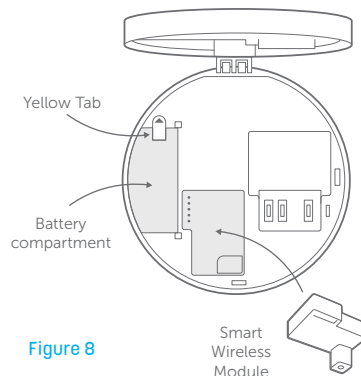


Figure 8

Pairing the Alarm

Choose The Master Alarm

1. Choose the wired alarm (ZSC-MW) with the smart wireless module (ZSC-SS) installed.
2. Press the TEST button of the first alarm 3 times in the space of 2 seconds. The RED LED should remain illuminated. This alarm remains the Master.

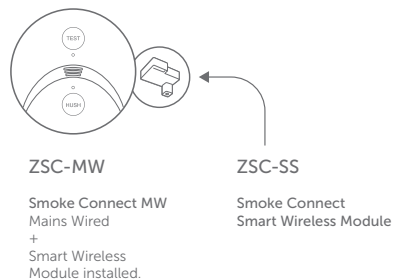


Figure 9

Pair The RF Wireless Alarms

3. Move to the next alarm (ZSC-RF) and press the TEST button of this alarm 3 times in the space of 2 seconds. The RED LED will illuminate briefly, and the unit will give one loud 0.5 second beep. The unit is now paired.
4. Repeat this process with all remaining alarms to be paired.
5. Return to the Master (first) alarm. The RED LED should still be illuminated. Press the TEST button 3 times, to complete pairing.
6. All paired units will have the RED LED flashing once every 40 seconds (example of network see Figure 11).
7. To run a test, press the alarm button for at least 2 seconds and the alarm will sound and the other interconnected alarms should go through their test cycle, with a series of beeps, within a few seconds.



Figure 10

Network Configuration Example

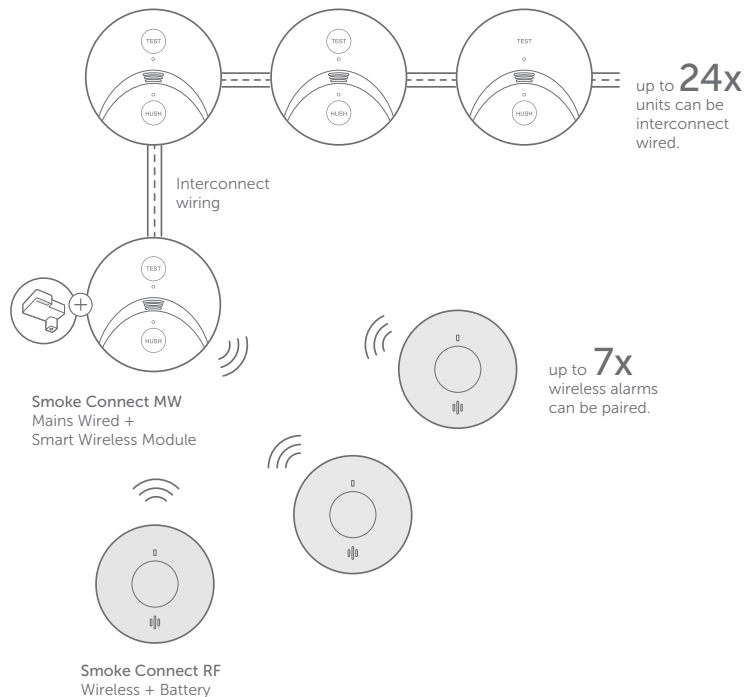


Figure 11

Important Notes

Cleaning And Maintenance

Smoke Alarms are prone to dust and insect ingress which can cause false alarms. It is prudent to clean the smoke alarm periodically.

Any insects or cobwebs in the vicinity of the Smoke Alarm should be promptly removed.

Vacuum the outside of the Smoke Alarm to remove any dust build up. Do not spray any cleaning liquids directly onto the smoke alarm.

Periodically Test The Alarm

Smoke Alarms are prone to dust and insect ingress which can cause false alarm, it is important to TEST the smoke alarm periodically.

Alarm Memory Feature

In an interconnected group, only the LED on the triggered alarm flashes twice approximately every 20 seconds for 1 week. This can be used to identify the triggered unit.

Hush Mode

In the event of an alarm condition, pressing the HUSH button on the alarm unit will silence the alarm for approximately 10 minutes.

NOTE:

Where multiple alarms are interconnected, the HUSH function WILL NOT OPERATE EXCEPT ON THE UNIT THAT THE ALARM WAS TRIGGERED FROM. The triggered unit can be identified by the flashing RED LED.

Do Not Disturb Mode

When the unit indicates a low battery alarm or internal fault, pushing the HUSH button will silence the alarm for 10 hours and the RED LED will flash every 40 seconds

Fire Safety

Develop An Escape Plan

As part of your plan, all family members should know and/or practice:

1. The two quickest ways out of each room
2. How to exit from upstairs, for homes with a second storey. A rope or chain may be required.
3. An agreed upon meeting place outside, such as the letterbox
4. Learn the sound of the smoke alarm and practice leaving your home when heard.
5. Practice a fire drill at least every six months including drills at nights. This allows you to test your plan before an emergency. You may not be able to reach your children. It is important that they know what to do!

What To Do If The Alarm Sounds

1. Alert any small children and elderly persons.
2. Leave immediately by your plan of escape. Every second counts, so don't waste time getting dressed or picking up valuables.
3. In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If inside door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
4. Stay close to the floor if air is smoky. Breathe shallowly through a wet cloth if possible.
5. Once outside, go to your selected meeting place and make sure everyone is there.
6. Call the Fire Department on 000.
7. Don't return to your home until officials say that it is safe to do so. For further information on fire safety contact your local Fire Department.

Troubleshooting

Problem	Cause and Remedy
The GREEN LED does not light when AC power supplied	<ul style="list-style-type: none"> Check the AC line is properly connected to the smoke alarm. Ensure that the AC power is turned on.
The RED LED does not flash every 40s	<ul style="list-style-type: none"> Ensure the Insulating sheet is pulled out Ensure that the AC power is properly connected.
Smoke alarm does not sound when tested	<ul style="list-style-type: none"> Ensure the AC power is properly connected. Ensure the Insulating sheet is pulled out Turn off the AC power and clean the smoke alarm.
Low battery warning	<ul style="list-style-type: none"> Replace the battery.
Fault warning	<ul style="list-style-type: none"> Clean smoke alarm. Wait 5 minutes.
Self test fault warning	<ul style="list-style-type: none"> Press the TEST button at least 15s, then release. Ensure that the battery is not low voltage. Clean smoke alarm. Turn off the AC power. Wait 3 minutes, then turn on the AC power.
False alarm	<ul style="list-style-type: none"> Press the HUSH button to silence it. Clean smoke alarm device. Move the smoke alarm device to new location. Dust or insect contamination - vacuum around Smoke Alarm to remove web or insects or blow with cool air dryer to clear dust to prevent false triggering.
Wired interconnected alarm does not trigger	<ul style="list-style-type: none"> Check the Live, Neutral, Interconnection wires are properly connected Check the interconnected smoke alarms are supplied from the same circuit.

**If the problem still exists, please return to your place of purchase.
If the unit is out of warranty, please replace with a new alarm.**

Disposal

Waste electrical products and batteries should not be disposed of with your other household waste. The alarm is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme.

Please recycle where facilities exist. Check with your local authority, retailer or contact our Zimi Support team for recycling/disposal advice as regional variations apply. Once the batteries are removed, the low battery warning chirp will stop. The batteries should always be removed before disposal.

7 Year Manufacturer's Warranty

This product has been manufactured to the highest quality standards. This product is warranted to the original purchaser and is not transferable.

The product is guaranteed to be free from defects in workmanship and parts for a period of 7 Years from the date of purchase. Defects that occur within this warranty period, under normal use and care will be repaired, replaced or refunded. The benefits conferred by this warranty are in addition to all other rights and remedies of the consumer under Commonwealth, State and Territory laws in relation to the goods or services to which this warranty relates and Australian Consumer Law. Risk in regard to the product to be repaired shall at all times remain with the Purchaser.

The warranty is given on the condition that the product to which it applies is used for the purpose and in the manner intended by its construction and for no other purposes whatsoever. Zimi Ltd shall not be responsible for damage of any kind, caused by accidents, power surges, electrical storm damage, incorrect power current, infestation (vermin or insect), incorrect installation, incorrect electricity or plumbing installation, improper use of controls or failure to use the product in accordance with the operating instructions, general misuse or abuse or from normal wear and tear. Any attempt by an unauthorised person to repair or tamper with the equipment shall render the warranty null and void.

Zimi Ltd's liability under this warranty is limited to the replacement and/or repair of the defective parts within the warranty period and does not extend to installation or removal of the product. Acceptance of liability by Zimi Ltd contained herein is to the exclusion of any other remedy whatsoever and howsoever arising in respect of any equipment to which it applies.



Zimi Smoke Connect

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