CAVIUS

MAINS POWERED SMOKE ALARM

PLEASE READ THE USER GUIDE CAREFULLY BEFORE INSTALLATION AND RETAIN FOR FUTURE USE.

CAVIUS Mains Powered Photoelectric Smoke Alarm

Part Code: 2203 CAVMP

Model: 2203-002

This smoke alarm is designed for private homes.

TECHNICAL INFORMATION

The smoke alarm is powered by mains power (110-230V AC), with a lithium CR2 back-up battery.

It can be Radio Frequency (RF) interconnected with other 2203 CAVMP alarms and CAVIUS™ Wireless Family battery-operated alarms. The maximum number of alarms that can be interconnected within a house group are 32.

Our Mains Powered alarms can only interconnect via radio frequency technology. There are no terminals to interconnect together with cable.

WIRELESS ALARM FAMILY

1

Please note: These must be alarms from the CAVIUS™ Wireless Family range.

The distance between interconnected alarms depends on the house layout and they should always be tested after installation. It is not advised to install alarms with a separation of more than 10m.

Diameter: 97mm. Height: 41mm (without mounting base) 52mm (with mounting base).

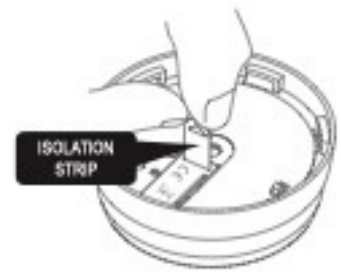
Radio Frequency: 926.365 MHz

Complies to standards: AS3786:2014

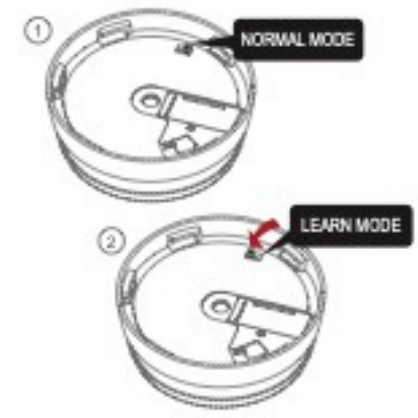
1. HOW TO SET UP AND CONNECT ALARMS:

Start by pulling out the battery isolation strip in the battery compartment as shown.

Please note: RF connection is done with the device powered with battery only. You do not have to connect the power supply unit. The product label must not be removed as it contains important information regarding the product.



All alarms to be connected in the house should be put into **'Learn Mode'** by sliding the switch on the back of the alarm to the **'Learn Mode'** position.



Please note: The learn switch placed on the back of the alarm can only be in learn position when the alarm is disassembled from the power supply unit. The learn switch will automatically switch to normal position when the alarm head is fitted to the power supply unit.

The red LED will light up to indicate that **'Learn Mode'** has been selected.

Do not remove the battery during 'Learn Mode' as this will interrupt the learn process. Press and hold the test button on one alarm only, until it beeps and the LED flashes. This alarm will become the master and will start sending out a specific house code to the other alarms.

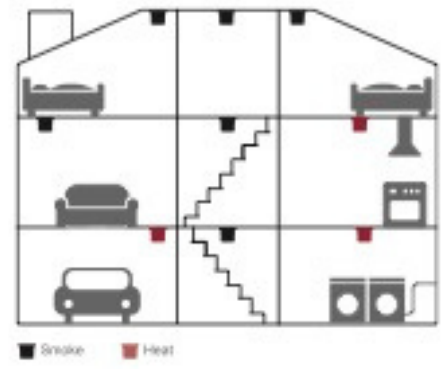
As the other alarms receive the specific house code, they will also flash the **LED** light.

When all alarms flash the red **LED**, they are connected and can be switched out of **'Learn Mode'** and installed.

2. THE BEST AREAS TO INSTALL THE SMOKE ALARM:

- Note the local country regulations regarding installation and compliance.
- Note the local regulations and information for insurance company policy regarding installed smoke alarms.
- Install an alarm between possible fire sources and bedrooms as a minimum.
- Install alarms on each floor of the house, in hallways and stairways.
- Alarms in each room such as bedrooms and living rooms.

Additional alarms increase the security.



3. AREAS WHERE NOT TO INSTALL SMOKE ALARMS:

- In dusty rooms
- At the top of a high pointed ceiling, in ceiling corners, and within 50cm of a wall.
- In rooms where temperature goes outside the range +4° to 38°C or above 90% relative humidity not condensing.
- In kitchens, garages, laundries, or too close to fireplaces; areas where either dampness, gases or smoke could occur.

Place the alarm where it is reachable in order to test the alarm and for maintenance.

4. PLACEMENT:

The smoke alarm is designed to be installed on a ceiling.

With a minimum of one smoke alarm per floor and a maximum distance between smoke alarms of 10 meters.

For ceiling installation:
The smoke alarm should be a minimum of 50cm from the wall.

For cathedral or peak ceiling:

5. INSTALLING THE SMOKE ALARM:

NOTE: THIS ALARM NEEDS TO BE INSTALLED BY A PROFESSIONAL.

MAKE SURE ELECTRICITY IS SWITCHED OFF BEFORE STARTING THE INSTALLATION.

CAUTION: LIVE, NEUTRAL AND EARTH MUST BE CORRECTLY INSTALLED AND NOT MIXED UP.

NOTE: The alarm is delivered in the packaging with a dust cover, installed to protect the alarm for exposure to excessive dust which could potentially damage or reduce the function of the alarm while the building is under construction. The dust cover must be removed after the building is fully cleaned.

Detach the Safety Lock/Tamperproof pin from the tab and push into the Safety Lock/Tamperproof slot on the alarm base.

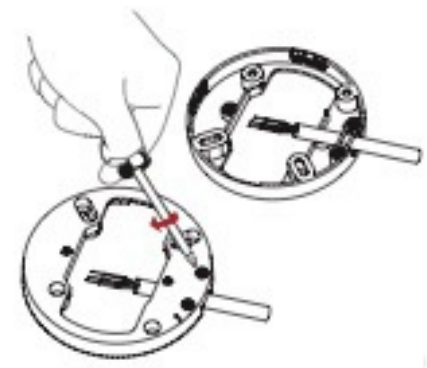
There is a spare pin provided in the event of losing one of the pins.

To remove the Safety Lock/Tamperproof pin from the alarm, use the pointed end of the tab to pop out.

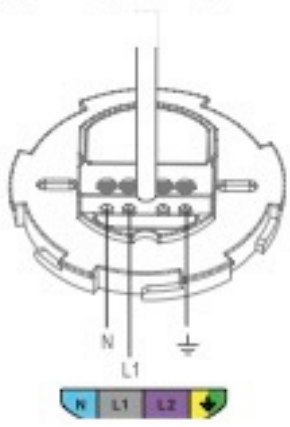
OPTION 1: ALARM MOUNTED ON MOUNTING BASE ON THE CEILING:

Use the mounting base ring to mark the screw holes on the ceiling.

For surface wiring pass the feed wire through the mounting base cable holder and screw after termination.



Connect the 3 wires to the power supply unit: Live feed (L1), neutral (N), Ground (⏚).



Screw the mounting base on the ceiling.

Screw the power supply unit on the mounting base.

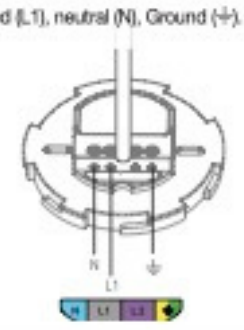
Once the mounting base with power supply unit is installed, attach the alarm by twisting clockwise until it clicks. If the battery is either missing or inserted incorrectly, the smoke alarm will not be able to click into the mounting base.

TIP: For easy installation, line up the two lines on the smoke alarm and PSU, turn clockwise.

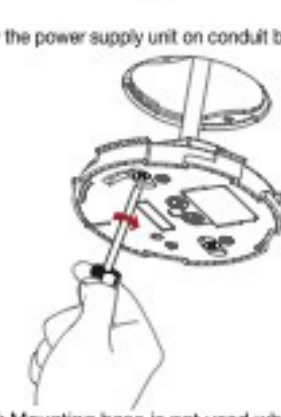
OPTION 2: ALARM MOUNTED ON TOP OF CONDUIT BOX:

Connect the 3 wires from the conduit box on the alarm power supply unit:

Live feed (L1), neutral (N), Ground (⏚).



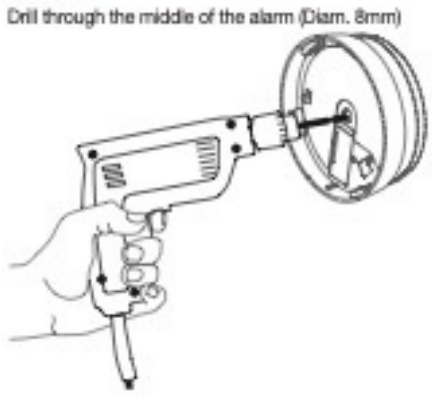
Screw the power supply unit on conduit box.



NOTE: Mounting base is not used when the alarm is installed on conduit box.

OPTION 3: ALARM MOUNTED WITH LAMP SOCKET:

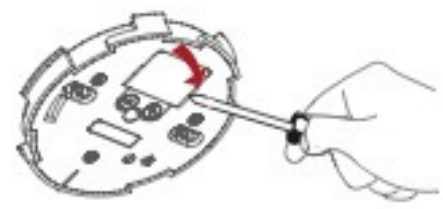
Drill through the middle of the alarm (Diam. 8mm)



Install the power supply unit into the mounting base ring or use the conduit box as shown in option 1 & 2.

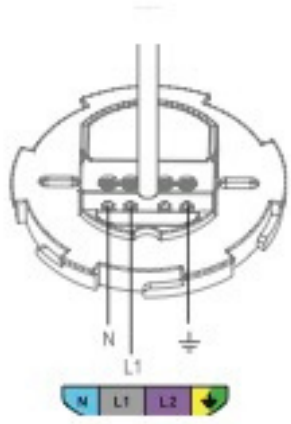
NOTE: Alarm supply must be different from the lamp supply which can be switched ON and OFF.

Remove the plastic cover to access to the power supply unit connector.



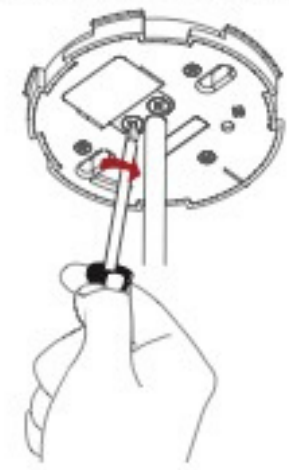
Pass the lamp wire through the smoke alarm.

Connect the 4 wires to the power supply unit: Live feed (L1), neutral (N), Ground (⏚), lamp feed wire (L2).



Install the wires as shown.

Install the cableholder and replace the cover.



NOTE: After putting the wires through the alarm, check if the test button can move freely. If the hole is too small the test button cannot move and will not function correctly.

Light bulb: maximum 75W
Lamp: maximum 2 kgs weight

6. TEST FUNCTION:

After installation, and at least once per quarter, test all of your alarms to ensure they are operating correctly and are within range of each other.

It is recommended to check visually every week if the **LED** flashes correctly (every 48sec.).

Press the test button on any alarm for at least 10 seconds.This will send out a test signal from the alarm; all other connected alarms should receive the signal within a short time. The alarms will emit a short beep and the **LED** will flash every 8 seconds for 2 minutes.

NOTE: Test function also transmits a weaker RF signal to ensure an optimal operation in normal conditions.

When the test signal is sent out, the alarms will respond in two ways:

1. A single beep every 8 seconds indicates that the alarms are connected and functioning.

2. Three short beeps every 8 seconds indicates a smoke sensor fault. The alarm should be cleaned by running the vacuum (on a low setting) around the smoke alarm chamber and in the provided vacuum slot, then tested again.

If required this indication can be stopped early on each alarm by a short press of the test button.

TIP: It is safe to cover the sound output holes with your finger or a cloth during the testing to minimize the sound level emitted.

If the problem continues, please visit **www.cavius.co.nz** or **www.cavius.com.au** for any trouble shooting.

7. NORMAL MODE:

In normal mode the **LED** will flash every 48 seconds to show correct operation.

The green **LED** is on when the alarm is connected to mains power. It may take up to 1 minute to indicate that mains power has been connected.

8. ALARM MODE:

When the smoke is detected, the smoke alarm will go into 'Alarm Mode'. It will sound the alarm signal and the red **LED** will flash.

The smoke alarm will also transmit the alarm signal to the other connected alarms, which will also sound the alarm signal after a short delay.

The CAVIUS™ Wireless Family have two different alarm signals:

Alarm signal 1 (--- --- ---) is life threatening alarms, like a smoke alarm.

Alarm signal 2 (- - -) is a non life threatening alarm, like a flooding alarm:

Smoke alarm signal: --- --- ---

Heat alarm signal: --- --- ---

Flood alarm signal: - - -

CO alarm low level signal: - - -

CO alarm high level signal: --- --- ---

Please note that only the originating alarm's red LED will flash, so it can be identified.

9. PAUSE/HUSH FUNCTION:

If the smoke alarms are set into a false alarm by cooking, fireplace, etc. they can be hushed for 10 minutes by pressing the test button on the originating smoke alarm only (indicated by the flashing **LED**).

The reason for this is that it is necessary to locate the source of the alarm before using the hush function. This is to make sure that it is not a life-threatening situation.