VOLTEX®
ELECTRICAL ACCESSORIES

SAS135MH SMOKE ALARM INSTALLATION MANUAL

ACTIVFIRE® CERTIFIED
AS 3786 2014

Buttons and Indicators

- Red indicator
- Hush Button
- Push Button
- Green indicator
- Test Button
- Speaker
- DO NOT PAINT

Sensing Type	Photoelectric (Type A - contains no radioactive material)
Power Supply	220-240V AC 50Hz Replaceable DC 3V battery: Pairdeer/ Huiderui CR17450
Interconnectivity	Hard Wired
Battery life	10 year backup Lithium
Wireless Option	Wireless Module SASWM (Optional)
Interconnection	Maximum 24 paired alarms Max wiring length between first and last alarm: 150 m
Size	Φ135mm x 45mm
Temp range	0°C - 45°C
Max Humidity	93%RH
"Alarm Signal Pattern"	ISO 8201
Alarm Volume	85dB at 3m
Hush Time	10 mins
Compliance	AS 3786: 2014
Certification	CSIRO Verification Service

Important Safety Information

- This Voltex Smoke Alarm is designed for use in dwellings and shall be installed by a licensed electrician. It is intended to detect smoke before it reaches the occupants of a building. The ensuing alarm is designed to wake the occupants and give them time to evacuate the building.

- This smoke alarm SHALL be installed in accordance with national and local council building regulations and the latest edition of the Australian and New Zealand wiring Rules AS/NZS 3000. A simplified, by State, installation requirements guide is available on Voltex's website.

- ALL ELECTRICAL WORK MUST BE CARRIED BY A LICENCED ELECTRICAL CONTRACTOR OR ELECTRICIAN.

Recommended Installation Locations

- At least one smoke alarm shall be fitted on each storey (including basements) - in each bedroom and in corridors or hallways which connect bedrooms and the rest of the dwelling or as required by relevant local legislation.

Scan this QR to download the PDF or follow this link
https://voltex.co/sas-install-req

- Where practicable smoke alarms should be placed on the ceiling.
- It is important to install the smoke alarm in the centre of the room, avoiding dead air spaces (an area in which trapped hot air will prevent smoke from reaching the alarm). Smoke alarms must not be placed within:

  - 300mm of a corner of a ceiling and a wall
  - 300mm of a light fitting
  - 400mm of an air-conditioning vent
  - 400mm of the blades of a ceiling fan

- Smoke alarms must be paired (interconnected) with every other smoke alarm so they all activate together.
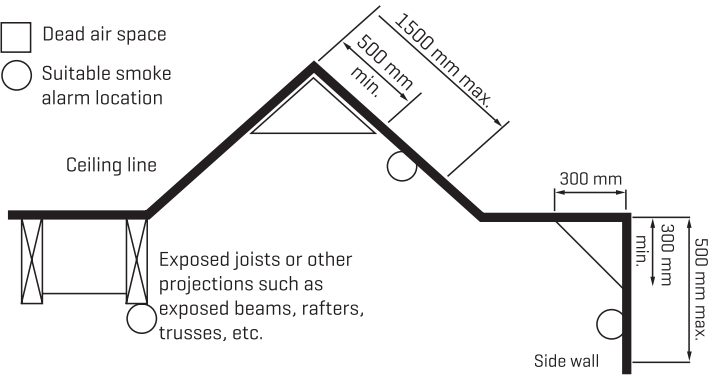
SINGLE FLOOR　　**Figure B**　　**Figure C**
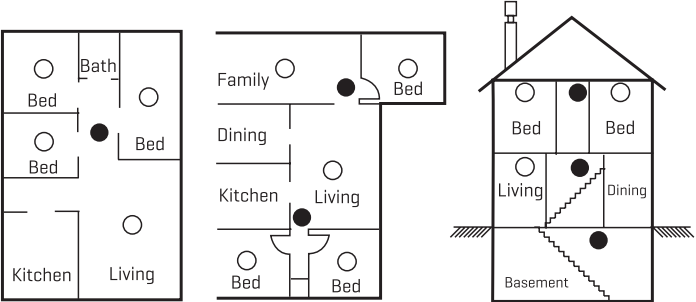
● **Minimum Protection**
○ **Additional Protection**

Where it is not possible to place the alarm on the ceiling, the smoke alarm may be installed on the wall at a minimum of 300mm and a maximum of 500mm off the ceiling at the junction of the wall.
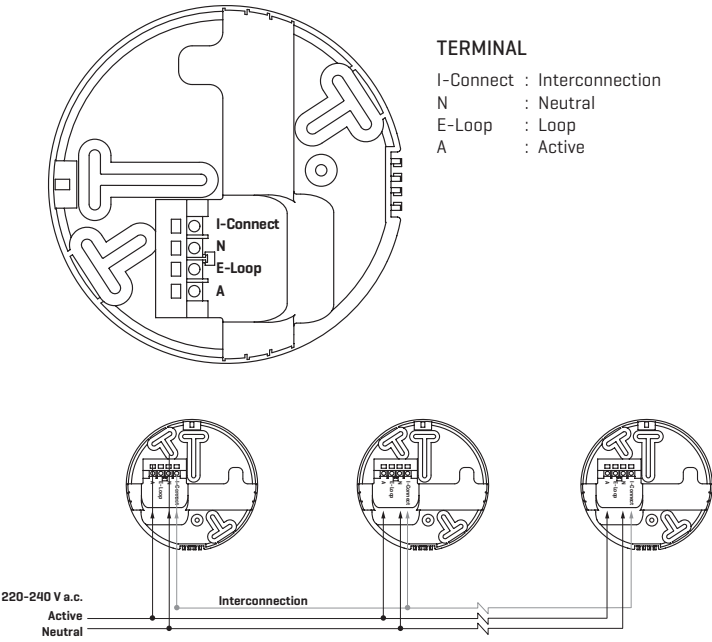
There are special requirements for stairways, sloping ceilings and ceilings with exposed beams. Specific requirements are explained in the relevant Building Regulation.

- □ Dead air space
- ○ Suitable smoke alarm location
- Ceiling line
- 1500 mm max.
- 500 mm min.
- 300 mm
- 300 mm min.
- 500 mm max.
- Side wall
- Exposed joists or other projections such as exposed beams, rafters, trusses, etc.

Nuisance Alarms

To reduce the likelihood of nuisance alarms, it is preferable that smoke alarms are not located near cooking appliances, bathrooms or laundries

Wiring Diagram

TERMINAL
I-Connect : Interconnection
N : Neutral
E-Loop : Loop
A : Active

220-240 V a.c.
Active
Neutral
Interconnection

Note: Terminal cover is supplied temperately in accessory bag, make sure the terminal cover is installed after wiring.

Installation Procedure

1. Remove the battery isolation strip to connect the battery.

2. Select an appropriate location and facilitate necessary wiring.

3. Isolate the power supply and wire the appropriate power terminals on the back of the smoke alarm.

4. Wire the interconnecting cable or insert the Voltex Wireless Module (Part number SASWM) into the smoke alarm- if using wireless interconnection.

5. If using wireless interconnection, please see section on pairing before installing on ceiling.

6. Mount the smoke alarm in the ceiling with the supplied fixings and clip the smoke alarm shut.

7. Apply power to the smoke alarm unit. A green LED indicates power is available.

8. Test the smoke alarm by pressing and holding the test button. If installed correctly and unit is functioning properly, an alarm should sound. If multiple alarms are installed, test the interconnection on all alarms.

System Interconnection

If more than one smoke alarm is installed all units shall be interconnected or paired.

Interconnection can be achieved either by wiring the I-Connect terminals of the alarms together or pairing using the optional wireless module (not included).

The smoke alarm can be paired with Voltex Battery Smoke Alarm type SAS115BW when fitted with a Wireless Module (not included), Voltex Part number SASWM.

Pairing using a Wireless Module (SASWM):
Note: Pairing is best done before installation on ceiling.

1) Open the SAS135MH smoke alarm by pressing the button marked "PUSH"

2) Remove the dummy module and replace with a wireless module (SASWM)

3) Ensure all smoke alarms being paired are turned on

4) Assign 1 smoke alarm to be the "MASTER". Press the TEST button on this smoke alarm 3 times within 2 seconds to enter "Pairing Mode". Note: The Alarm LED will illuminate solid Red & the unit will remain in pairing mode for 5 minutes (240V type) & 30 seconds (Battery type) . This unit now becomes the MASTER smoke alarm. Warning: Only create one MASTER per installation.

NOTE: Clearly mark the Master unit to add more smoke alarm into the interconnection group in the future

5) On any other SLAVE smoke alarm, press the TEST button 3 times within 2 seconds to enter pairing mode.
If the network connection is successful:

- For a 240V MASTER: The unit will do one long chirp and the SLAVE unit LED will extinguish and chirp.

- For a Battery MASTER: The Blue LED on the back will change to Green for 1 sec then back to blue, The LED on back of slave unit will change to green then turn off.

6) Once all units that are being wirelessly paired are complete, Exit pairing mode by pressing the test button on the MASTER smoke alarm 3 times within 2 seconds. The Red LED on the 240V unit will turn off.

Ensure the pairing light is still illuminated on the Master unit just before each pairing action to avoid creating multiple groups.

Pairing a Wireless Smoke Alarm Remote (SASREM)

1. Energise the wireless remote by removing the battery isolation tab

2. Press the "NET" button once to make sure it can enter Pairing mode. The LED above the TEST button should illuminate SOLID RED. Press "NET" again to exit if functioning correctly.

3. Locate the Master Smoke alarm, or assign the Master alarm if a new installation

4. Remove the dummy module and replace with a wireless module (SASWM)

5. Ensure all smoke alarms being paired are turned on

6. Assign 1 smoke alarm to be the "MASTER". Press the TEST button on this smoke alarm 3 times within 2 seconds to enter "Pairing Mode". Note: The Alarm LED will illuminate solid Red & the unit will remain in pairing mode for 5 minutes (240V type) & 30 seconds (Battery type) . This unit now becomes the MASTER smoke alarm. Warning: Only create one MASTER per installation.

NOTE: Clearly mark the Master unit to add more smoke alarm into the interconnection group in the future

7. Press the "NET" button once on the wireless remote (SASREM)

If the network connection is successful:
- For a 240V MASTER: The unit will do one long chirp and the SLAVE unit LED will extinguish and chirp.
- For a Battery MASTER: The Blue LED on the back will change to Green for 1 sec then back to blue, The LED on back of slave unit will change to green then turn off.

The Wireless Remote only needs to be paired to the Master Alarm, not to each smoke alarm individually

8. Once all units that are being wirelessly paired are complete, Exit pairing mode by pressing the test button on the MASTER smoke alarm 3 times within 2 seconds.

https://voltex.co/saswm-nz
Scan for SASWM Product

https://voltex.co/sasrem-nz
*Scan for SASREM Product*

NOTE: If wirelessly connecting one 240V smoke alarm to another 240V smoke alarm, do not also use a hard wire Interconnection between these two 240V smoke alarms.

NOTE:
1. Interconnection wire shall be no less than 1.5mm2 and shall be SDI cable
2. Smoke alarms which are interconnected using hard wiringmust be on the same circuit.

> ⚠ **WARNING: DO NOT CONNECT INTERCONNECTION WIRE TO ACTIVE, NEUTRAL OR EARTH**
>
> **NOTE: VOLTEX SMOKE ALARMS SHOULD NOT BE INTERCONNECTED WITH ANY OTHER BRANDS OF SMOKE ALARMS**
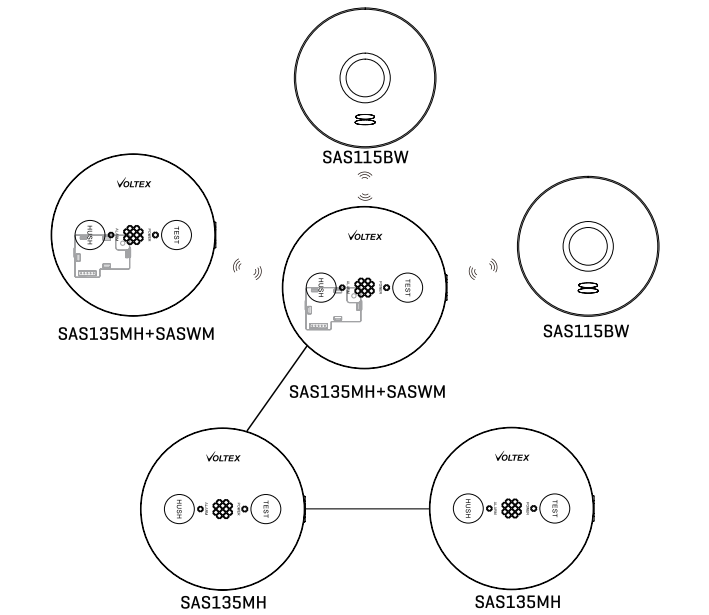
HUSH Mode

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 RED LED flashing.

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.

Test Procedures For Hardwired Interconnection

1. Ensure the green LED is continuously illuminated on each unit, this indicates 240V mains AC power is available.

2. Pressing and holding the test button on any smoke alarm for at least 5 seconds will activate an alarm and cause the red LED on the front face to flash. (Note: all other interconnected smoke alarms will stop alarming when releasing the Test button, but the red LED will flash for 3 minutes.

3. Repeat this procedure for each alarm.
Note: The sending/test unit will only sound on initial pressing, not together at same time as the receiving units.

Audio and Visual Indication

OPERATION MODE	RED LED STATUS	SOUND
Power Up	Flash	No beep for no wireless interconnection. No beep for hard wired interconnection. Beep once when wireless module is installed & paired. Chirp 3 times when wireless module is installed but NOT paired.
Alarm functioning correctly (standby)	Low intensity 1x flash every 40 seconds	-
Alarm Memory	**Triggered alarm Flashes Twice every 20 seconds for 1 week**	-
Low battery warning	Flash every 40 seconds	One chirp every 40 seconds. Press HUSH button enter 'Do Not Disturb' Mode for 10 hours.
Fault warning	Flash every 40 seconds	One chirp every 40 seconds. Press HUSH button enter 'Do Not Disturb' Mode for 10 hours.
Self-test fault warning	Flashes twice every 40 seconds	-
HUSH mode	Flash once every 8 seconds for 10 min	-
Do not Disturb	Flash once very 40 seconds for 10 hours	-
Smoke detected on local alarm*	Flash every second	Continuous alarm signal pattern, Press HUSH button to enter Silent Mode for 10 min
Smoke detected on interconnected or paired unit	-	Continuous alarm signal pattern, Press HUSH button to enter Silent Mode for 10 min
Test function	Flash every second	Continuous alarm signal pattern until TEST button released
Weekly self-test	Flash once	Chirps once every week
End of Life (10 year) Warning	Flashes once every 40 seconds	Chips every 40 seconds Cannot enter 'Do Not Disturb' Mode.

Continuous alarm pattern: Beep 0.5s- Pause 0.5s- Beep 0.5s- Pause 0.5s-Beep 0.5s- Pause 1.5s repeatedly per ISO 8201 Smoke is detected, and the building must be vacated immediately. Emergency services must be notified.

NOTE: If self-test fault warning is existing, but the product can sound alarm when press the test button. The product can continue to be used. Need to test weekly by press the test button instead of self-test weekly.

Maintenance

- Periodically apply the Test Procedure to test the alarm.
- Smoke Alarm are prone to dust and insect ingress which can cause false alarm, it is prudent to clean the smoke alarm periodically. The Smoke Alarm must be kept clean so that excess dust does not build up. 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.

Alarm Memory

The Red LED on the triggered alarm flashes TWICE every approximately 20 seconds for one week. This can be used to identify the triggered unit. The memory will last for 7 days from the last trigger event. Removing the battery will pause the memory, not delete it.

Trouble Shooting

Problem	Solution
Green LED not lit	Check mains power connection If green power light still not visible, perform a re-start: Remove the battery, press Test button twice, re-install battery.
Hard wire paired smokes don't alarm during test	Check if Smoke Alarms are in same circuit, interconnect cable is corrected firmly and mains power is connected.
Wireless interconnected smoke alarms don't alarm during test	Clean the wireless paired smoke alarm per instruction and repair.
Alarms sound for no apparent reason	Check for fumes, steam, etc. from the kitchen or bathroom. Paint and other fumes can cause nuisance alarms. Check for any sign of contamination such as cobwebs or dust. Clean the alarm.
	Press the local Hush button to silent the Smoke Alarm triggered, identify the alarm that triggered by the flashing red LED (alarm will not silence if it does not have a flashing red LED)
	If cannot hush the smoke alarm, push the button located on the side and open the Smoke Alarm, take off the battery. Contact Voltex.
1x Chirp every 40 seconds and cannot hush	Check if battery has been installed firmly, contact Voltex
Dust and insect Contamination	Vacuum the outside of the Smoke Alarm to remove any dust build up. Smoke Alarm are prone to dust and insect ingress which can cause false alarm, it is prudent to clean the smoke alarm periodically.

SMOKE ALARM FAULT FINDING

Faulty alarms will generally have a 20s double flash on the ALARM LED.
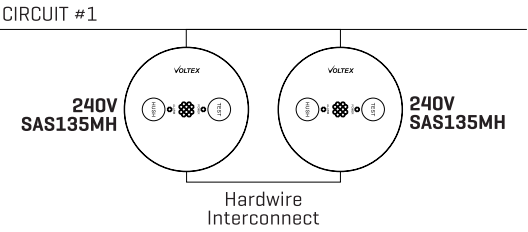
Scan this QR to watch the video or follow this link
https://voltex.co/sasvid-nz

Call 0800 55 66 33 for assistance.
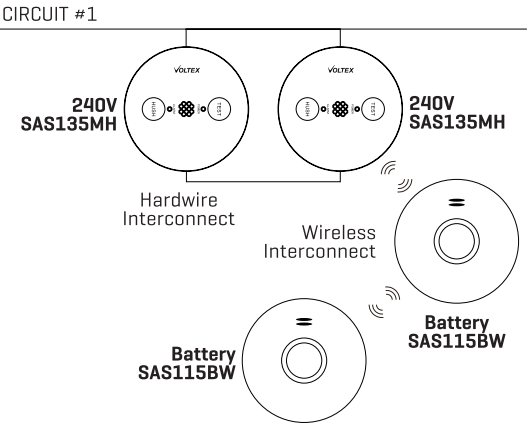
System Configuration

CONFIG 1
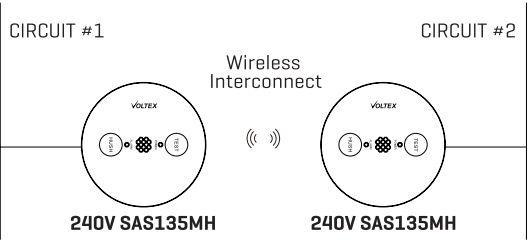Hardwire Interconnect Only, 1 Circuit

CONFIG 2
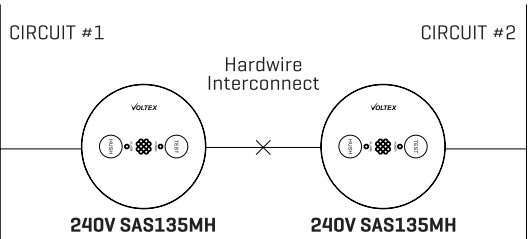Hardwire & Wireless Interconnect, 1 Circuit

CONFIG 3
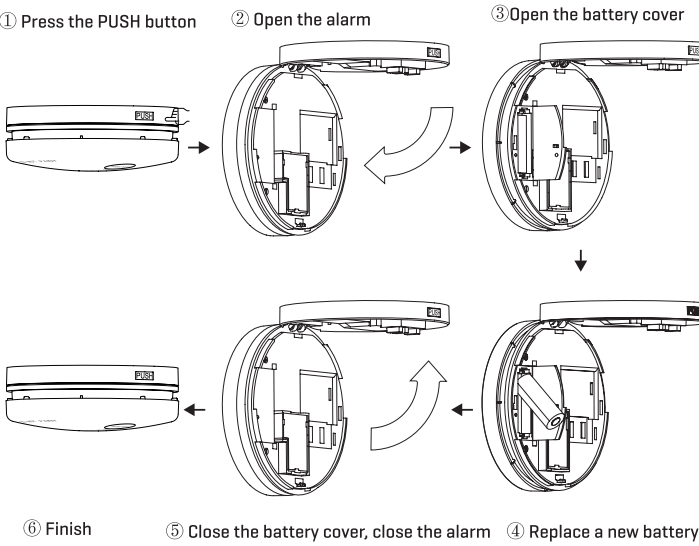Wireless Interconnect Only, 2 Circuits

NOT ALLOWED

Replacing the battery

- The smoke alarm incorporates a replaceable battery (CR17450) which is designed to power the smoke alarm in the event of a short-term power outage. The battery is designed to last 10 years subject to normal use and regular maintenance from the date of manufacture and can be replaced by opening the smoke alarm and accessing the battery under the battery cover

① Press the PUSH button ② Open the alarm ③ Open the battery cover
⑥ Finish ⑤ Close the battery cover, close the alarm ④ Replace a new battery

Warranty Information

Voltex warrants this accessory against defective workmanship and faulty materials for seven (7) years from the original date of purchase.

VOLTEX®