TRADER®
100 Years of Gerard Electrical Tradition

BEAR™

BESMOKEY10BWV2

Smoke Alarm Wireless Interconnect Photoelectric Surface Mount Non Removable 3V DC Lithium 10 Year Battery Powered Only



Thank you for purchasing our smoke alarm. This instruction contains important information on the correct installation and operation of your smoke alarm. Read this instruction fully before attempting installation and retain them for future reference.

AS3786:2014
AS3786:2014+A1:2015+A2:2018
AS3786:2023(ISO 12239:2021)

Specifications:	
Detection method	Optical
Power Supply	Built-in DC3V Lithium battery (battery not replaceable)
Battery Lifetime	10 years + 2 years transportation and Storage time
Monitored area	40 m²
Operating temperature	0 °C - 40 °C
Operating Humidity	< 93 %
Date of replacement	See product label
Individual alarm indicator	Yes
Silence feature (hush mode)	Yes | Hush time: 10±1 minutes
Low battery warning	Yes
Low battery silence facility installation in leisure	Yes | Hush time: 10 hours
Mounting Location	Ceiling or wall
Inter-connectable	Yes | max. 40 devices
Wireless frequency	433.42MHz
Wireless distance	Max. 100 metres in free field
Local smoke alarm sound pattern:	ISO 8201 85+ dB at 3 metres, 3.0 to 3.5 KHz pulsing alarm

BESMOKEY10BWV2 can only be connected to other BESMOKEY10BWV2 or BESMOKEY10V2 using the BESMOKEY10WMV2 or BESMOKEY10REMV2

No other models or smoke alarm brands shall be connected to Trader Bear smoke alarms.

Warning:

- 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 regulations in local regions.
- The alarm should not be exposed to steam or splashing and that no objects filled with liquids shall be placed in close proximity.

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

Product function description:		
Function	**Visual Indication**	**Audio Indication**
Normal Alarm Function	The Red LED flashes every 40 seconds.	None
Test (Button Pressed On Direct Unit)	Flashes once per second.	Siren once per second for 3 seconds then pause 1.5 seconds then cycle again. Unit will cycle through alarm twice then stop (total of 6x Chirps).
Test (Wireless Paired Unit) Alarm being tested signals others in the network.	Indicator lights will commence approx. 15 seconds after siren has stopped Flash twice every 1 second for duration of 5 minutes.	Siren once per second for 3 seconds then pause 1.5 seconds then cycle again. Unit will cycle through alarm twice then stop (total of 6x Chirps).
Local Alarm Detected Smoke	One flash per second.	Siren once per second for 3 seconds then pause 1.5 seconds then cycle again.
Paired Wireless Alarm	None	Siren once per second for 3 seconds then pause 1.5 seconds then cycle again.
Silence Feature (Hush Mode) • When activated from unit that has detected smoke (initiating unit) will silence unit within 10 second, other alarms will continue to sound for approx. 30 second before Hushing. • Initiating alarm can be identified by 1x Red LED Flash every 1x second • When Hush is pressed on a different unit other than the initial alarm: All other alarms apart from initial alarm will silence	**When pressing Initiating alarm:** • Initial alarm will Flash once every 1 second • All other alarms will flash 2x per sec for 5 minutes **When pressing other alarms:** • Alarms that did not detect smoke the pressed unit will flash 2x per second for 5 minutes • Unit that detected smoke (initiating alarm) will not silence	When Pressed on Unit that detected smoke: All other units will continue to sound alarm for approx. 30 second before HUSH is activated. When Pressed on any other unit that has not detected smoke, all units will silence except from the unit that has detected Smoke
Low Battery Warning Need to replace for a new smoke alarm	The Red LED flashes every 40 seconds.	Beep every 40 seconds.
Connected Low Battery Warning (Connected device battery is running low)	1 flash every 40sec.	None
Smoke Alarm Memory (For further information see Smoke Alarm Memory section of instructions)	Alarm that detected smoke will flash 2x every 8 seconds Other alarms will flash 2x every second for 5min	None
Low Battery Warning Silence Feature Need to replace smoke alarm	3 flashes every 40 seconds for 10 hours	None
Internal Fault Warning Need to replace smoke alarm	2 flashes every 40 seconds	2x beeps every 40 second

Caution:

- Before using the HUSH function, identify the source of the smoke and ensure conditions are safe. The unit will resume normal operation after 10-minute 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.
- If the alarm sounds, and it is not being tested, it means the unit detected smoke.
  THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

Installation planning

- Recommended location of smoke alarms
- Standard guidelines should be followed and locations should be planned for optimum performance when installing the smoke alarms. The Building Code of Australia and regional Government Legislations provide direction.
- For optimal performance, alarms should be mounted as close to the centre of the rooms as practical and on the ceiling for residential applications (see diagram 2).
- Smoke alarms should be located in the vicinity of sleeping areas, bedrooms and along the path to the exit as the sleeping quarters are usually further from building exits.
- Smoke alarms should be mounted near each end of hallways longer than 9 metres.
- Smoke alarms on ceiling must be installed at least 300mm away from walls or corners (see diagram 3).
- Where it is necessary to mount smoke alarms on a wall, use the inside wall of the room and position them between 300mm and 500mm from the ceiling. (See diagram 3).
- Alarms should be located in every room where electrical appliances are used.
- The position of smoke alarms shall not be closer than 1000mm from an air conditioner outlet/inlet, light fitting, ceiling fan or any other component that may cause the alarm to not function correctly

Multi-Storey

- Alarms should be installed on every floor level.
- Stairwells can act like chimneys as smoke can rise through them, so additional alarms should be located in these areas (see diagram 1).

Diagram 1

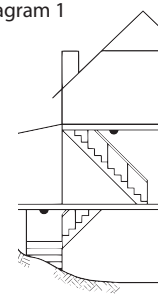


Diagram 2 - Suggest alarm location

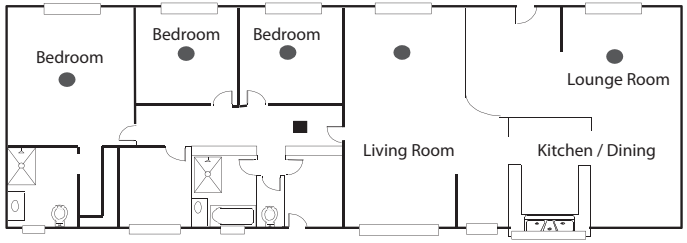
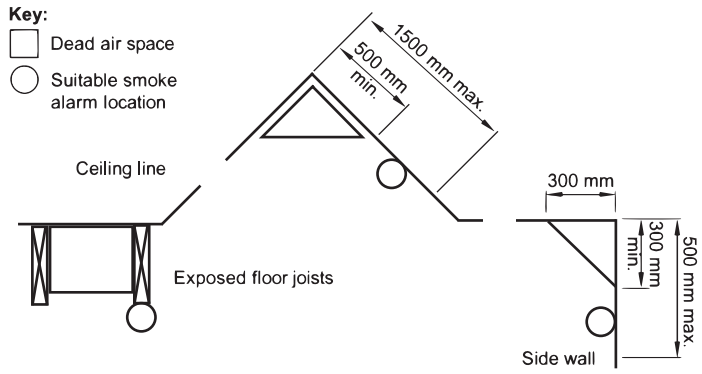


Diagram 3



DEAD AIRSPACE AND PROPER MOUNTING OF SMOKE ALARMS ON SIDE WALLS

Locations to avoid:

- Air-conditioner ducts or appliance outlets that create airflow such as heaters where combustion heat particles rise and spread horizontally.
- Avoid installation in kitchen areas as nuisance triggering can occur from cooking fumes, heat or smoke particles rising.
- Avoid installation in damp areas or extremely humid locations where relative humidity may reach 90%.
- Avoid installing in areas where there are large temperature variations such as 5 to 45 degrees as performance may vary in extreme conditions and battery life may be reduced.
- Avoid installing alarms in areas that are considered "dead air space" where smoke will unlikely reach the alarm (see diagram 3).
- It is recommended not to locate your alarm in the garage - products of combustion that are present when you start your vehicle may cause nuisance triggering.
- Do not locate your alarm less than 500mm from the peak of an "A" frame type ceiling (see diagram 3). Avoid dusty areas or areas where insects may infest the unit as it may cause nuisance triggering or premature failure.
- Avoid installation in close proximity to other electrical equipment or fluorescent lights as electromagnetic interference may cause nuisance triggering.

Pairing the Alarm

1. Choose one smoke alarm as the master. Mark this unit as Master on the rear of the unit for future reference. Ensure to always use the same Master unit whenever pairing a new unit.
2. Press TEST button 3 times in 2 seconds to turn alarm into Pairing mode
3. The master alarm will flash a RED LED once per second for approx. 10 seconds. Then remain solid for 5 minutes.
4. Using the next smoke alarm to be linked press TEST 3 times in fast succession to place the alarm into pair mode where it searches to link to the master
5. The newly linked alarm will flash red and then follow with a short chirp which the Master will mimic indicating it is connected.
6. The master exits pairing mode after 5minutes, it is suggested to prepare multiple alarms for pairing prior to entering pairing mode with the Master.
7. Repeat steps 4 to 6 if multiple alarms are required to be paired.
8. When the alarms are successfully paired to the master, press the test button ONCE on the master to exit pairing mode or wait for the 5 minutes to exit pairing automatically. The RED LED will turn off.
9. Once the alarms are paired and the network created, take alarms to the mounting locations, mark out positions, install bracket to mounting location (diagram 4) and assemble them to the mounting brackets.

NOTES

1. The BESMOKEY10BWV2 can also be networked with the BESMOKEY10V2+BESMOKEY10WMV2 and BESMOKEY10REMV2 as shown in diagram 5.
2. **The BESMOKEY10BWV2 SHOULD NOT be connected to the BESMOKEY10+BESMOKEY10WM, BESMOKEY10BW and BESMOKEY10REM**.

Test Procedure

1. Make sure all alarms are on and have a RED LED flash once every 40 seconds.
2. Press and hold TEST button until alarm begins to sound.
3. Pressed alarm will begin to sound its alarm, and the red LED will flash once per second for 3 seconds approx.
4. Release the Test button. The unit will stop alarming after approx. 6x chirps of the alarm.
5. All interconnected alarms will sound their alarm once every second for 3 seconds. The units will repeat this twice (6x alarm chirps in total)
6. Once receiving alarms have stopped sounding, the red LED will begin to flash twice every second to signify they are in test mode.
7. Test mode will continue for 5 minutes. At the end of 5 minutes the LED flash will return to normal (once every 40 seconds). The initial alarm will continue to flash once every 40 seconds.
8. To exit Test mode early:
   a. Press Test button Once quickly

Disconnecting an alarm from a network and returning to factory settings

1. Put alarm into pairing mode – Step 4 "Pairing the Alarm"
   Press TEST button 3 times in 2 seconds
2. Wait for the RED LED to stop flashing – 10 seconds
3. Press and hold the TEST button the red LED will continually flash
4. Hold the Test button until the unit sounds a short BEEP – approx. 15 seconds
5. The red LED will stop flashing.
6. Release the TEST button
7. The unit has now been RESET

Silence or HUSH the alarms

1. Investigate and determine the reason for the alarms to be sounding
2. If there is no active fire present HUSH mode can be activated
3. Determine the alarm that originally sounded the alarm
   Unit will have a RED LED flashing once every second
4. Press HUSH button on alarm that originally triggered
   The unit that has been pressed will silence straight away
   All other units will have a 30 seconds delay before HUSH will activate
5. If HUSH is pressed on any alarm other than the unit that has detected smoke
   Unit that detected smoke will NOT Hush
   All other units will HUSH
6. Units will all Hush and remain in HUSH for 10 minutes
   If there is still smoke present at the end of 10mins the alarms will activate again.

Diagram 4

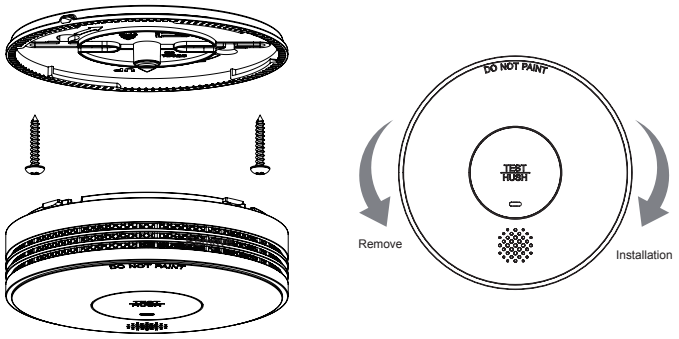
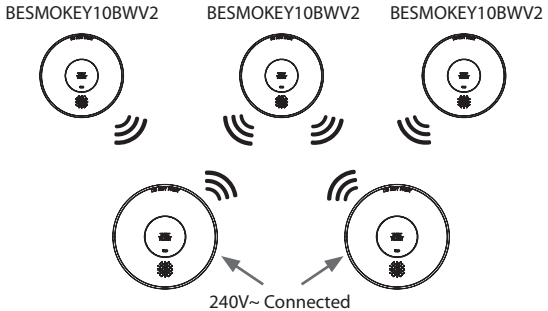


Diagram 5

NETWORK CONFIGURATION EXAMPLE



Optional Locking Feature

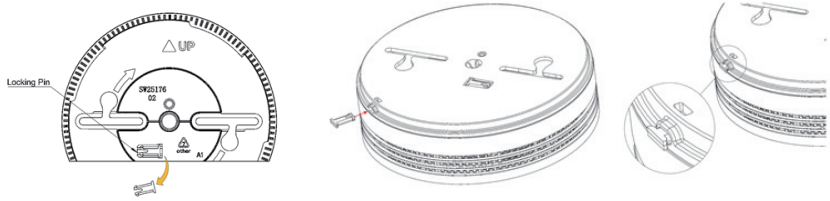
The optional locking feature is designed to prevent unauthorized removal of the alarm.
It is not necessary to activate the lock in households where unauthorized alarm removal is not a concern.

Lock Alarm

1. Remove Locking pin from mounting base
2. Install alarm onto mounting base
3. Insert locking pin into oval shaped hole on the base plate
4. The alarm is now locked to the base and not easily removed

Unlock Alarm

1. Remove locking pin from base using a tool
2. Alarm can now be unscrewed from base



Alarm Memory Status

After the device exits smoke alarm mode, the device will enter a 7-day alarm memory status: the red LED will flash twice every 8 seconds. In the alarm memory status, pressing the device buttons will prevent the device from issuing a test alarm. If the TEST button is pressed during the Smoke alarm memory period the alarm that detected smoke will enter a Location state. Location state will have the alarm start a series of rapid beeps once every second. This state cannot be stopped for 1min.

The alarm memory status can be cleared using the following steps:

1. If alarm has just sounded, wait 2 minutes until initial alarm stops rapid flashing
2. Quick press and release the button once.
3. Press and hold the test button for approx. 15 seconds. The device will emit a rapid beep sound for 3 seconds, followed by the red light flashing continuously for approximately 15 seconds. At this point, you will hear a beeping sound from the device, and the red light will stop flashing. Release the button; the alarm memory status will be cleared.
4. During the reset procedure the other interconnected alarms may sound a test alarm. This will stop after the units has been reset.

Cleaning and Maintenance

Smoke Alarms are prone to dust and insect ingress which can cause false alarms. It is essential 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.

Low battery mode

When the battery is running low, the smoke alarm will indicate this with a repetitive beep and flash once every 40 seconds WARNING: This smoke alarm is equipped with a non-replaceable battery. When this warning occurs, replace the device as soon as possible! The acoustic low battery warning signal can be muted for ten hours by pressing the test button. The smoke alarm is still functioning and able to detect smoke when it's in this mode.

Periodically apply the Test Procedure to test the alarm.

Be sure to periodically test the alarm to ensure its correct operation See "Test alarm" Section for test instructions.

Develop an Escape Plan

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

1. How to exit from upstairs, for homes with a second storey. A rope or chain may be required.
2. An agreed upon meeting place outside, such as the letterbox
3. The sound of the smoke alarm and practice leaving your home when they hear it.
4. A fire drill at least every six months including drills at nights. Practice 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 Brigade 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 Brigade.

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.

Trouble Shooting:		
Problem	**Audio/Visual Indication**	**Cause and Remedy**
The Red LED does not flash every 40s	• No RED LED flash present	• Ensure the alarm is switched on and inserted on base correctly. • Test alarm to see if it functions – Test alarm procedure
Smoke alarm does not sound when tested	• No alarm signal from alarm	• Ensure the alarm is switched on and inserted on base correctly.
Low battery warning	• 1x Red LED flash and beep every 40 seconds	• Replace a new smoke alarm.
Low Battery warning HUSH	• 3x flashes every 40 seconds for 10 hours	• Alarm can be Hushed to avoid disturbances until unit can be replaced • Hush will end after 10 hours
False alarm – No smoke present	• 1x Red LED flash every second • 1x Beep every 1sec for 3 seconds	• Press the HUSH button to silence it. • 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.
Smoke alarm Fault	• 2x Red LED flash every 40 seconds • 2x Beeps every 40 seconds	• Smoke alarm defective – please replace
End of Life signal (1month count down)	• 3x Red LED flash every 40 seconds 3x Beep every 40sec	• Smoke alarm at end of life – please replace
If the problem still exists, please return to your electrical wholesaler. **If the unit is out of warranty, please replace another new alarm.**		

Repair

Caution: Do not attempt to repair the alarm. It will affect your warranty. If the alarm is not operating properly, and is still under warranty, return it to the original place you buy. Pack it in a well-padded carton, and ship to the original place of purchase.

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 or retailer for recycling/disposal advice as regional variations apply.





10 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 10 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. GSM Electrical (Australia) Pty 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.

GSM Electrical (Australia) Pty 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 GSM Electrical (Australia) Pty Ltd contained herein is to the exclusion of any other remedy whatsoever and howsoever arising in respect of any equipment to which it applies.