

Model: DVM-SB90

Thank you for purchasing our smoke alarm. Please take a few minutes to read the user's manual thoroughly and familiarize yourself and your family with its operation. And save it for future reference.



KM 694336 EN 14604:2005/AC:2008

PRODUCT SPECIFICATIONS

WARRANTY PERIOD: Lifetime = 10 years.

After that, the smoke detector must be replaced.

For the production date: check the sticker on the detector.

POWER: DC9V

OPERATION CURRENT: ≤8uA (standby), ≤28mA (alarm)

ALARM VOLUME: >85dB (A) at 3 meters

ALARM SENSITIVITY: 0.10-0.16dB/m

COMPLY WITH: EN14604:2005/AC: 2008

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 flash, repeated this alarm pattern)

DESCRIPTION

The unit is a photoelectric smoke alarm device. It is particularly sensitive for detecting visible micro-particles (associated with smoldering fires) and reacts faster than ionization alarms. An example of such smoldering fires is a cigarette burning in a couch or bedding, a common cause of devastating blazes. Please note this device does not detect flames, heat, carbon monoxide or other hazardous gases. It has many advanced features and an extended operational life with the included battery.

RECOMMENDED LOCATIONS FOR ALARMS

1. Your alarm is suitable for the landing, hallway, bedroom, living room and dining room.
2. Install it in the stairway and in every floor.
3. Smoke, heat and burning things will spread horizontally after rising to the ceiling, so install the alarm in the middle of the ceiling of an ordinary structured house.
4. If the alarm cannot be installed in the middle of the ceiling for some reason, the distance where the alarm is positioned from the wall corner should be at least 30 cm. (see the diagram 1).
5. If the length of the room or the hall is beyond 10 meters, you need install several alarms in the hall.
6. When the ceiling is slanting, the alarm needs to be installed minimum 50 cm away from the highest ceiling point in the room (see the diagram 2).

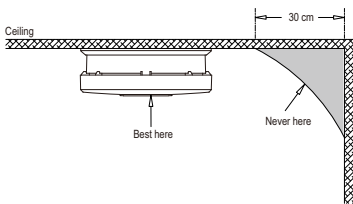


Diagram 1

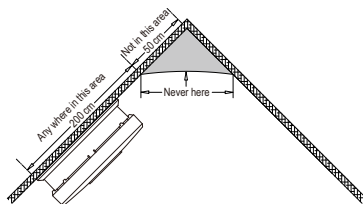


Diagram 2

LOCATIONS TO AVOID

1. Near appliances or areas where normal combustion regularly occurs (kitchens, near cookers, hot water heaters etc). Use specialized smoke alarms with unwanted alarm control for these areas.
2. In areas with high humidity, like bathrooms or areas near dishwashers or washing machines, install at least 3 meters away from these areas.
3. Near air returns or heating and cooling supply vents, install at least 1 meter away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
4. In rooms where temperature may fall below 5°C or rise above 40°C.
5. In extremely dusty or dirty areas, particles interfere with smoke alarm operation.
6. Keep away from air conditioning or ventilation.

INSTALLATION:

WARNING: Battery door will not close and/or alarm will not attach to mounting bracket unless battery is installed correctly.

1. Take off the bracket from the alarm body.
2. Hold the bracket on the installation position, and mark installation holes of the bracket with pencil.
3. Drill two installation holes at the position with electric drill, making diameter of holes 5mm, and then insert the two plastic fixing anchors into holes with hammer.
4. Attach the bracket to the plastic fixing anchors and tighten the screws into the plastic fixing anchors. (Refer to Diagram 3).
5. Fit the alarm on the bracket and turn the alarm body clockwise, until it matches securely on the bracket.
6. Press the button to test the unit. The alarm sounds 3 beeps - 1.5 seconds pause. If there is no sound, it indicates a defective alarm, you can refer to "Trouble shooting" for a solution or return it to your retailer during warranty.
7. If you have any questions on installation, you can contact your retailer.

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

Installation sketch map:

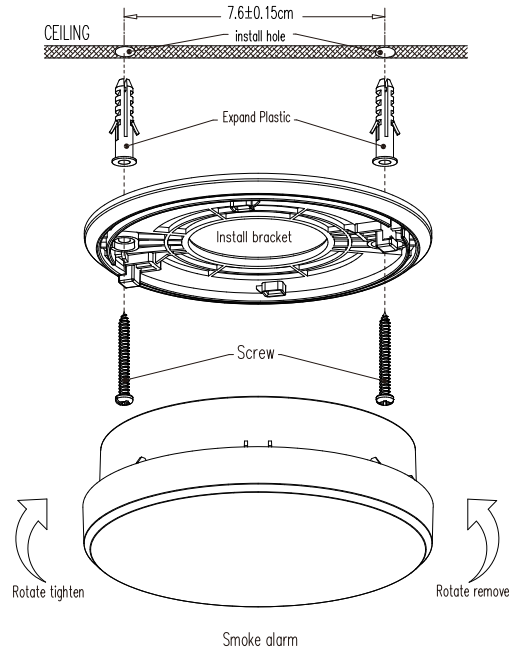


Diagram 3

OPERATION AND TESTING:

TESTING

Test by pushing the test button on the cover and holding it down for a minimum of 5 seconds. This will sound the alarm if the electronic circuitry, horn, and battery are working, until the air is cleared. If no alarm sounds, the unit has defective batteries or other failures.

DO NOT use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.

NOTE: WEEKLY TESTING IS REQUIRED

Normal condition

The red LED on the front should flash every 32 seconds to show that the alarm is active.

Alarm Condition

When the alarm senses products of combustion and goes into alarm, the red LED will flash one flash per second. The flashing LED and pulsating alarm will continue until the air is cleared.

Low Power Pack Condition

IMPORTANT: Your smoke alarm requires the power pack to have sufficient capacity of power to operate correctly.

Should your smoke alarm enter a low power pack condition, the unit will emit an audible chirp once every 32 seconds. When this occurs, you must replace the battery immediately. Your smoke alarm will continue to warn of this low power pack condition for at least 30 days, however, failure to change the battery after this time would mean your smoke alarm may have insufficient power to alert you in a real fire situation. When the alarm is removed from the mounting plate the power pack will automatically deactivate and the low power warning chirp should stop, allowing you to

dispose of the alarm.

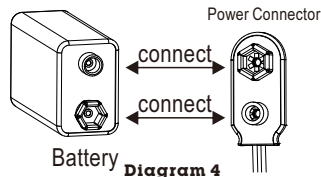
Fault indication

The alarm chirp occurs every 32 seconds.

BATTERY REPLACEMENT

1. Turn the alarm body counterclockwise and remove the alarm body from the bracket (see Diagram 3).
2. Take out the old battery and connect the new battery to power connector according to Diagram 4.
3. Fix the battery into battery box, fit alarm body on bracket and turn the alarm body clockwise.
4. Test smoke alarm using test button. The sound pattern is 3 short beeps-pause 1.5 seconds, repeated.

CAUTION: Test the smoke alarm for correct operation using the test facility whenever the battery is replaced.



Replace the battery of the smoke detector only with an Alkaline battery of type 6LR61.

WHAT TO DO IN CASE OF A FIRE IN YOUHOME

1. Don't panic, and stay calm.
2. Alert small children in the home.
3. Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
4. In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through crack don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rushes in.
5. If the air is smoky, stay close to the floor. Breathe shallowly through a cloth, wet if possible.
6. Once outside, go to your selected meeting place and make sure everyone is there.
7. Call the fire department from your neighbor's home -not from yours!
8. Don't return to your home until the fire officials say that it is all right to do so.

ROUTINE MAINTENANCE

In addition to weekly testing, the alarm requires periodic cleaning to remove dust, dirt, and debris.

Clean the alarm at least once a month to remove dust, dirt, or debris.

Use a vacuum cleaner with the soft brush, vacuum all sides and covers of smoke alarm device.

This alarm has a low battery monitor which will cause the alarm to "chirp" approx every 32 seconds and the red LED flashes once at the same time for a minimum of thirty days when the battery gets low.

If there is a defective battery or other failures, you can refer to "Trouble shooting" for solution, if there are still failures during warranty, you can return it to your retailer.

IMPORTANT: Do not attempt to remove the cover to clean inside. This will affect warranty.

Cautions:

- ◆ Photoelectric smoke detectors can reduce the likelihood of a disaster, but they cannot guarantee a 100% safety.
- ◆ To ensure your maximum security, please install all smoke detectors exactly according to this manual.
- ◆ Keep the detectors clean. Do not allow dust to accumulate and test them at least once a week.
- ◆ Replace them immediately if they are not working properly.

TROUBLE SHOOTING

Problem	Trouble shooting
Smoke alarm does not sound when tested. NOTE: Push test button for at least five seconds while testing!	<ol style="list-style-type: none"> 1. Remove smoke alarm from bracket, then check the battery is properly connected to battery connector. 2. Clean smoke alarm. 3. If there are still failures during warranty, you can return it to your retailer. 4. If the unit is out of warranty, please replace it with another new alarm.
The alarm chirp occurs every about approx 32 seconds, at the same time the red LED flashes once	The battery is in low battery status replace battery refer to "BATTERY REPLACEMENT" section.
Smoke alarm chirp occurs every approx 32 seconds (alarm goes in- to fault mode)	<ol style="list-style-type: none"> 1. Clean smoke alarm. Please refer to the "ROUTINE MAINTENANCE" section. 2. Purchase and change another smoke alarm if the problem still exists.
Smoke alarm sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	<ol style="list-style-type: none"> 1. Press test button to pause alarm. 2. Clean smoke alarm device. Please refer to the "ROUTINE MAINTENANCE" section. 3. Move smoke alarm device to new location and press test button.
The alarm sounds different. It starts and stops.	<ol style="list-style-type: none"> 1. Clean smoke alarm device. Please refer to the "ROUTINE MAINTENANCE" section. 2. If there are still failures during warranty, you can return it to your retailer. 3. If the unit is out of warranty, please replace it with another new alarm.

WARRANTY INFORMATION

Guarantees from the manufacturer to the end user (the consumer).The manufacturer warrants that each new smoke alarm will be free from defects in material and workmanship under normal use and maintenance for a period of 10 years from the date of manufacture.This warranty does not cover damage resulting from accident, misuse or abuse, or lack of reasonable care for the product.In no event shall the manufacturer be liable for any incidental or consequential damages for breach of this or any other warranty, express or implied, of any kind.Defective products can be returned to the seller with a detailed description of the problem.



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