

Battery Powered Photoelectric Smoke Alarm User Manual



PHOTOELECTRIC

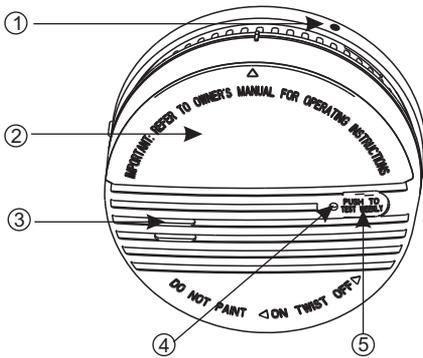


M212-2EVer1.0

PRODUCT INTRODUCTION

This product is a battery operated photoelectric smoke alarm, adopting unique structure design and advanced photoelectric sensor technology, able to monitor and detect smoke particles in real time. Especially detects visible particles (associated with smouldering fire) sooner than ionization alarms. Once smoke particles or a fire danger is detected, this alarm will chirp and the red LED will flash rapidly to alert you and your family timely. Furthermore, this alarm has dustproof, mothproof and anti-light interference etc. functions, ensuring stability from design basis and suitable for early warning and protection of fires in houses, factories, shopping malls, hotels, office buildings, school buildings, banks, libraries and warehouses etc. indoor places.

PRODUCT PROFILE



- ① Tamper Resist Locking Pin - could be installed in motor homes, ships etc. quavering places.
- ② Battery Compartment Cover - on top surface. Battery replacement is very convenient
- ③ Buzzer - loud alarm sound > 85 decibel.
- ④ RedLED - standby status, flashes once every 40s; alarm status, flashes rapidly.
- ⑤ Test Button - verifies if the smoke alarm is operating properly.

TECHNICAL SPECIFICATION

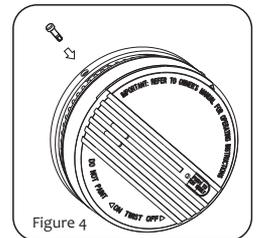
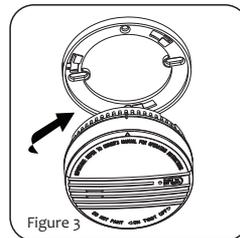
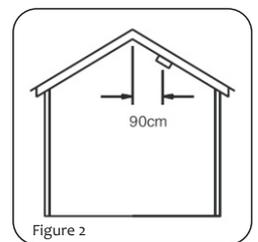
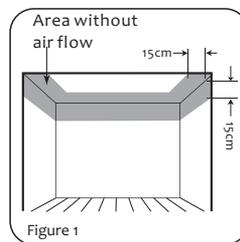
Power supply: DC 9V battery
 Standby current: $12\mu\text{A}$
 Alarm current: 10mA
 Alarm sound: >85dB (3m)
 Sensor type: Photoelectric
 Battery life after low battery warning: >30days
 Temperature range: $0^{\circ}\text{C} \sim 49^{\circ}\text{C}$ ($32^{\circ}\text{F} \sim 120^{\circ}\text{F}$)
 Humidity: 10%~90%RH (No icing or condensation)
 Dimension: $\Phi 95 \times 41\text{mm}$
 Executive criteria: EN14604:2005;GB4715-2005; UL217
 Detecting area: 80m at 6-12m installation height;
 60m at installation height 6m.

FEATURES

- Advanced photoelectric sensing technology; detects visible particles (associated with smouldering fire) sooner than ionization alarms.
- Convenient to install and maintain.
- Battery compartment on alarm top surface; battery replacement is more convenient and has protection function for reverse battery loading.
- Auto check malfunction.
- Low battery warning; smoke alarm will chirp once every 40s to remind user of replacing a new battery.
- Auto reset.
- Sound and flash alarm; alarm sound louder than 85 decibel with red LED flashing.
- Test button; tests unit's electronic circuitry, buzzer and battery function.
- SMT manufacture technology; high stability.
- Dustproof, mothproof and anti-white light interference design.
- Anti-RFI (20V/m-1GHz).

INSTALLATION

1. Avoid installations in places with stagnating smoke, heavy dust, heavy water mist, heavy oil mist, great humidity (>95%) and high wind speed (>5m/s).
2. Insert the battery correctly into the battery compartment according to the marked positive and negative polarity.
3. Choose a proper position. Normally the center of the detection area ceiling is recommended. If impractical, do not install the detector in area without air flow (as Figure 1). For roof with oblique beam, the ceiling is also oblique where the detector should be installed at a position with 0.9m horizontal distance to spire (as Figure 2). Fix the detector base into a chosen position with screws. Then put the detector head into the base and twist clockwise to fasten it (as Figure 3). At last, plug in the tamper resist locking pin (as Figure 4).



OPERATING INSTRUCTION

1. Battery is equipped on delivery. Unpack the battery insulation cement to active the battery before using.
2. After activating the battery, the smoke alarm enters into normal monitoring status. The LED blinks once every 40s.
3. Sensitivity Test
 To ensure normal operation, periodic tests should be performed. Once a month is recommended. For testing, press and hold the Test Button more than 3s to enter into sensitivity test status. The alarm indicator will flash rapidly and buzzer will give out alarm sound, which indicates the smoke alarm works properly. During testing, keep ears away from the smoke alarm to avoid hearing damage.

4. Malfunction Check

When buzzer beeps once every 40s along with alarm indicator flashing once rapidly, the battery voltage is lower than normal operating voltage for the smoke alarm. Replace a new battery in time for this situation. For battery replacement, pls refer to Battery Replacement Instruction.

When buzzer beeps once every 40s without alarm indicator flashing, the infrared photoelectric sensor has malfunction. For this situation, contact with vendor on time. Do not dismount or repair alarms privately to avoid accidents.

5. Battery Replacement

When smoke alarms have low battery warning, pls replace the battery immediately (as Figure 5). During replacement, mind the positive and negative polarity markings and use below recommended 9V batteries. Using improper battery will cause the alarms do not work or damage.

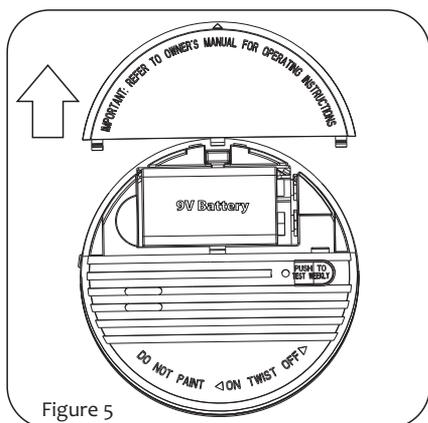
GOLITE: 6F22

EVEREADY: 522. 216. 1222

ULTRALIFE:U9VL

DURACELL: MN1604. MX1604

GOLD PEAK: 1604P. 1604S. 1604A



6. Keep matches or lighters away from children.

7. Keep at least one working fire extinguisher on every floor and an additional one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper floor in case stairs are blocked.

8. Make sure an the family members know what to do after hearing an alarm signal.

9. Install smoke alarms correctly according to manual. Keep alarms clean and do not let dust accumulate and test them monthly. Replace them immediately if they are not working properly.

NOTICE

1. The malfunction auto check function of this smoke alarm only provides infrared photoelectric sensor malfunction check and low battery power check. The sensor sensitivity should be tested periodically as required.
2. To ensure the sensitivity to smoke, clean the smoke alarm surface with soft brush or cleaner every 6 months. Do not use solvent, liquid or detergent to clean the smoke alarm.
3. For malfunction problems, pls contact with vendor on time. Do not dismantle and try to repair alarms privately.
4. If smoke alarms are not used for a long time, dismount them, remove batteries, put them in packing box and store in cool place.
5. Photoelectric smoke alarms could reduce disaster happening. But they can not guarantee a hundred percent safety. For your safety concern, pls use this smoke alarm correctly and know the fire safety tips. In daily life, pay attention to build up safety consciousness and take preventive measures.

FIRE SAFETY TIPS

Follow fire safety rules and prevent hazardous situations:

1. Store combustible liquids such as gasoline in proper containers.
2. Never smoke in bed. After smoking a cigarette, put it out and place in a correct container.
3. Check if power sockets, plugs or switches are broken . If cables are frayed or cracked , replace them on time.
4. Using power electric appliances such as heaters or heating equipments, do not make the circuit overload and check periodically if these appliances work properly.
5. Keep portable heaters and open flames, like candles, away from flammable materials.