

Battery Powered Photoelectric Smoke Alarm User Manual

M219-2EVer1.0



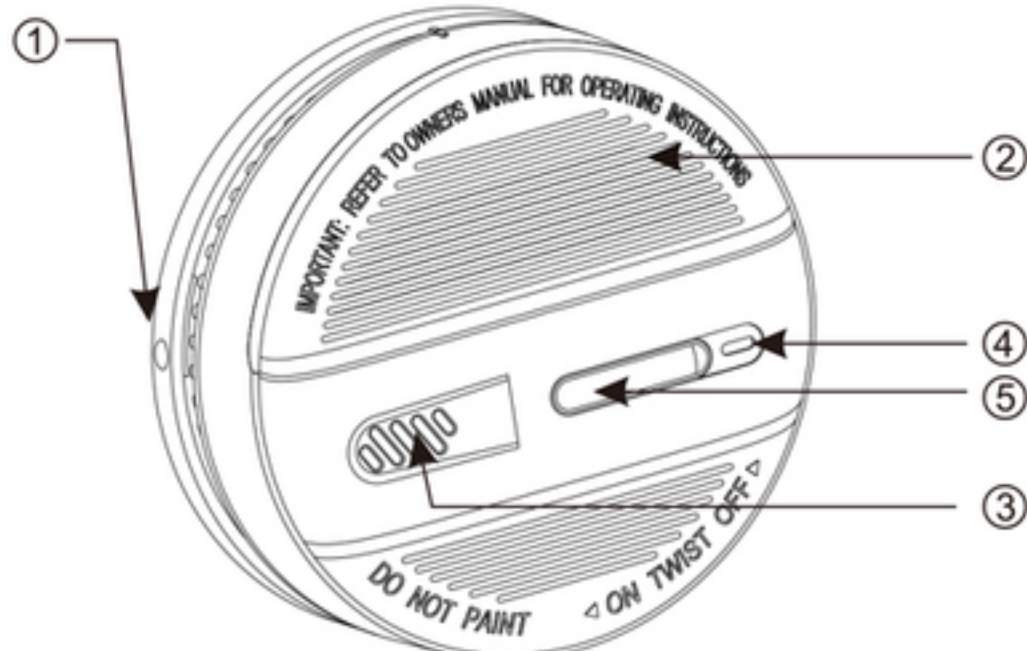
PHOTOELECTRIC



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 Locking Pin
- ② Battery Compartment Cover
- ③ Buzzer
- ④ Red LED
- ⑤ Test Button

TECHNICAL SPECIFICATION

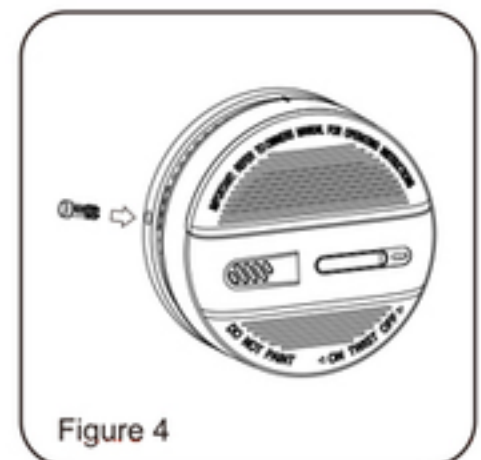
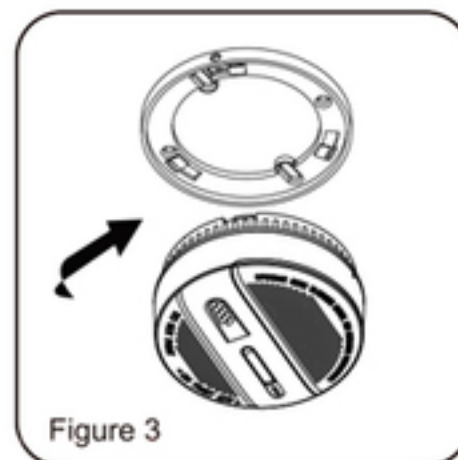
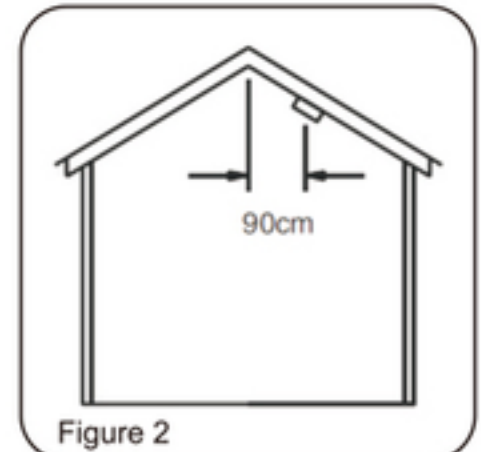
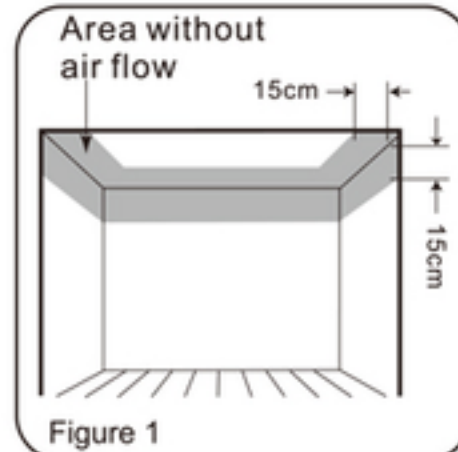
Product type: photoelectric
 Power supply: DC 9V battery(1x 6F22)
 Alarm indication: red LED and alarm sound
 Alarm sound output: ≥85dB at 3m
 Wireless type: MCU code, 2262 or 1527 available
 Wireless frequency: 315MHz or 433MHz
 Wireless distance: Max. 150m(Actual wireless distance varies depending on the control panel used)
 Working Temperature: -10°C~+50°C
 Working humidity: ≤95%RH
 Dimensions: Φ95.5 X H43.2mm
 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.
- Low battery warning; smoke alarm will chirp once every 53s to remind user of replacing a new battery.
- Automatic reset
- Acousto-optic alarm signals; alarm sound no less than 85 decibel with red LED flashing .
- Test button; tests unit's electronic circuit, buzzer and battery function.
- SMT manufacture technology; high stability.
- Dustproof, mothproof and anti-white light interference design.

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 peak top of the ceiling. (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

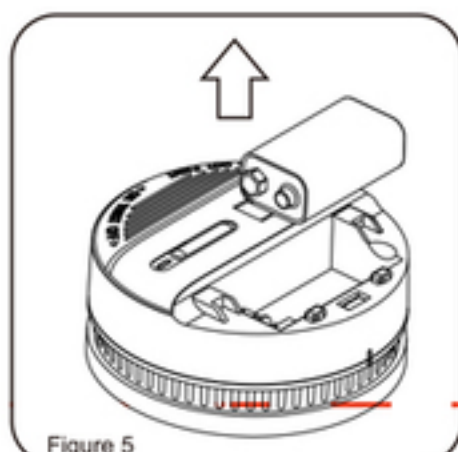
1. Activation:
 Battery is equipped on delivery. Unpack the battery wrapping paper and install the battery into the battery compartment to activate the smoke alarm. Red LED will start to flash once every 53 seconds.
2. Testing:
 To ensure normal operation, periodic tests should be performed. Once a month is recommended. For testing, press and hold the Test Button more than 1 second to enter into testing mode. 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.

3. Alarm function:
 When the detected smoke density reaches the threshold value of the smoke alarm, red LED will flash quickly with loud short quick beeps.
4. Hush function:
 When the smoke density reaches the threshold value of the smoke alarm, the buzzer will give out loud alarm sound and the red LED indicator will flashes quickly. At this time, press the test button will make the smoke alarm enter into 10 minutes' hush mode: the red LED indicator flashes once every 10 seconds. During the 10 minutes, even if the smoke density is still higher than the threshold value, the test button is nonfunctional; if the smoke density goes below the threshold value, press the test button will activate the smoke alarm to perform testing operation. After the 10 minutes, the smoke alarm will automatically recover to normal working.
 *Only after make sure there is no fire danger could hush function be activated.
5. Low battery:
 One "beep" alarm sound every 53 seconds at the same time as red LED indicator flashes indicates the battery is low and needs replacement.
 *If the user want to hush low battery alarm sound, just press (no more than 1 second)the test button to make the alarm enter hush mode for 12 hours.
6. Battery replacement:
 One "beep" alarm sound every 53 seconds at the same time as red LED indicator flashes indicates the battery needs replacement. Do this as soon as possible.
 Pay attention to the positive and negative polarity of the battery.

WHENEVER THE BATTERY IS REPLACED, TEST THE ALARM FOR CORRECT OPERATION BY PUSHING THE TEST BUTTON.

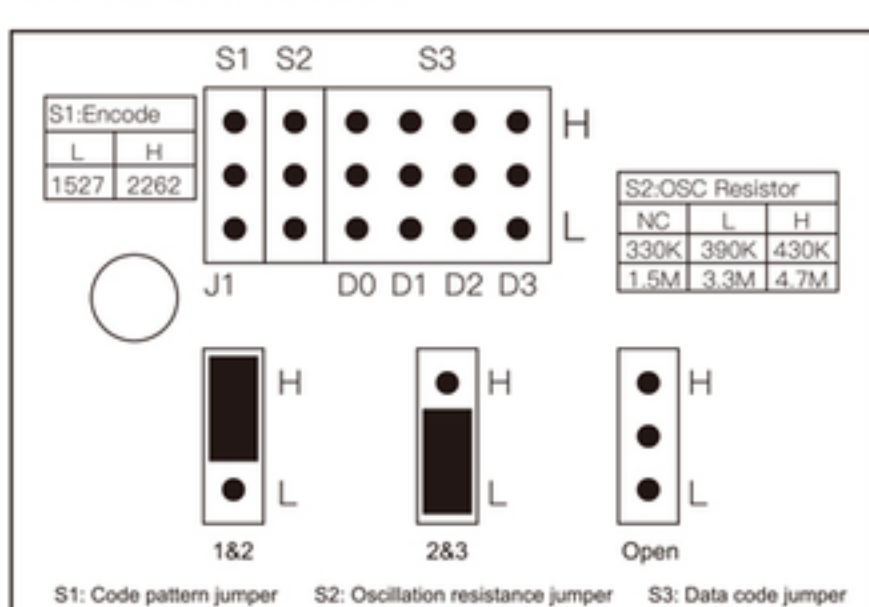
WARNING: IT IS FORBIDDEN TO USE RECHARGEABLE BATTERIES.

1. Remove locking pin before rotating the smoke alarm counter-clockwise out of the bracket.
2. Open the battery compartment cover, take out the used battery. Push and hold the test button for about 5 seconds to release residual power which may cause the smoke alarm to issue low battery alarm.
3. Replace with a new 6F22 9V battery. Push the test button, if the red LED flashes quickly together with quick short beeps, it indicates the smoke alarm is working normally.



RF FUNCTION SETTING

JUMPER SETTING FIGURE



1. Code pattern jumper: 2262 and 1527 code patterns are available for different controll pannels.
 Short 1&2: The code pattern is 2262.
 Short 2&3: The code pattern is 1527.
2. Oscillation resistance jumper:
 Different oscillation resistance jumpers are available for different controll pannels.
 Short 1&2:
 Under 2262 code pattern, the oscillation resistance is 4.7M.
 Under 1527 code pattern, the oscillation resistance is 430K.
 Short 2&3:
 Under 2262 code pattern, the oscillation resistance is 3.3M.
 Under 1527 code pattern, the oscillation resistance is 390K.
 Open:
 Under 2262 code pattern, the oscillation resistance is 1.5M.
 Under 1527 code pattern, the oscillation resistance is 330K.
 Data code jumper:
 D0-D3 is the data code for setting alarm type, and the data code should be set in accordance with the controll pannel. (Remarks: With built-in MCU, needn't set the address code for 2262 and 1527code patterns, but must match the code with the learning controll pannel.)

Notes

1. Clean the smoke alarm surface with soft brush or wet cloth at least once a month. Do not use solvent or detergent to clean the smoke alarm.
2. If smoke alarms are not used for a long time, dismount them, remove batteries, put them in packing box and store in cool place.
3. 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

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. If the heater or heating facility is used at home, do not overload the circuit. Check periodically if these appliances work properly.
4. Keep portable heaters and open flames, like candles, away from flammable materials.
5. Keep matches or lighters away from children.
6. 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.
7. Make sure all the family members know what to do after hearing an alarm signal.
8. Install smoke alarms correctly according to this user manual. Keep alarms clean and do not let dust accumulate and test them monthly. Replace them immediately if they are not working properly.