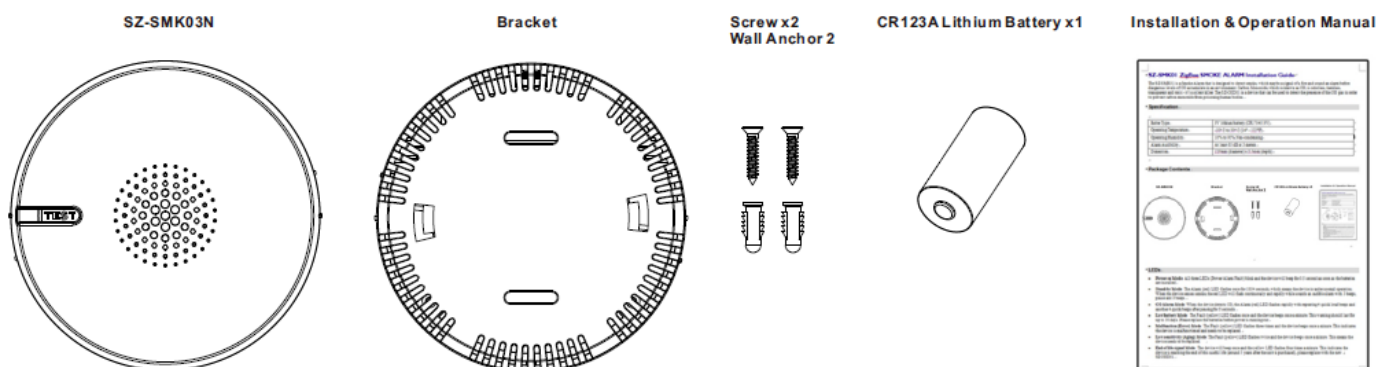# SZ-SMK03N ZigBee SMOKE ALARM Installation Guide

The SZ-SMK03N is a Smoke Alarm that is designed to detect smoke, which maybe a signal of a fire. This device can provide more time by making alarms for you and your family to escape before a fire spreads.

Specification

Batter Type	Smoke Detector: Sealed-in 3V lithium battery RF: GP CR123A x1
Operating Temperature	0° C to 50° C (31° - 122℉)
Operating Humidity	10% to 85% Non-condensing
Alarm Audibility	At least 85 dB at 3 meters
Dimention	97mm (diameter) x 42mm (depth)

Package Contents

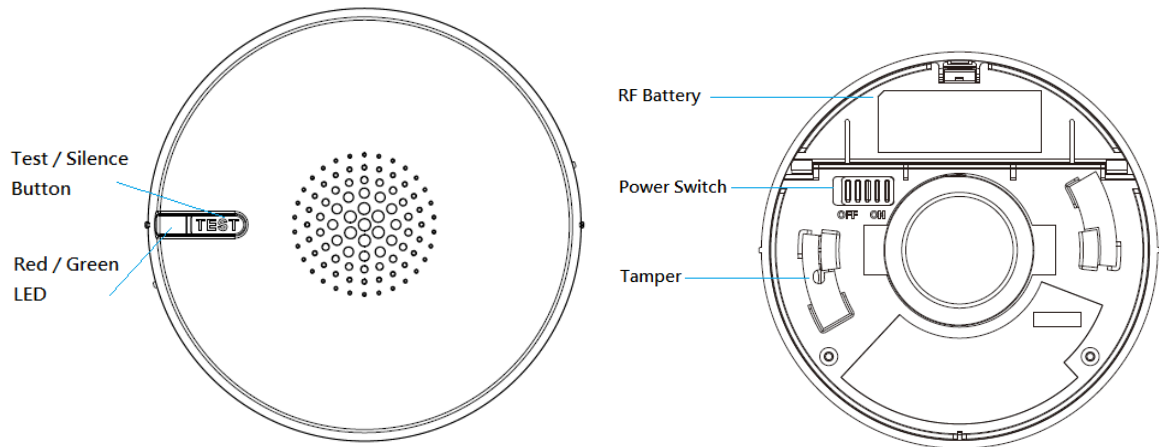SZ-SMK03N   Bracket   Screw x2 Wall Anchor 2   CR123A Lithium Battery x1   Installation & Operation Manual

LEDs

- **Stand-by Indication**: The device is under normal operation if the red LED flashes once for 344 seconds. When the device senses smoke, the red LED will flash continuously and rapidly while sounds an audible alarm with 3 beeps, pause and 3 beeps.

- **10 Year End of Life Indicator:** The red LED flashes and the device begins to chirp once in 43 seconds to alert you that the unit must be replaced.

- **Low Battery Warning:** Same as 10 Year EOL indicator. When the device is installed in low temperature environment (lower than 20° C), the battery life for smoke alarm may shorter than 10 Years.

- **ZigBee Indicator**: When the device is ready to join to a ZigBee Network, the Green LED flashes every 5 seconds.

Intallation

Test / Silence Button
Red / Green LED

RF Battery
Power Switch
Tamper

Enable Smoke Alarm Battery

1. A sealed-in battery is pre-installed and disabled in default. The battery capacity is designed to operate the smoke alarm for 10 years in room temperature (25° C).
2. Enable the smoke alarm battery by sliding the power switch to "ON".
3. Test the smoke alarm by pressing "Test Button" to assure the unit is functioning correctly. The horn start sounding when the test button is long pressed.

   Note:

   After 10 years operation or Low Battery warning, disable the smoke alarm by sliding the power switch to "OFF"

Installation/Replacement RF Battery

1. Open the battery cover of the device.
2. Install the supplied battery correctly.
3. Close the battery cover.
4. Green LED starts blinking when it is ready to join ZigBee network.
5. Please use a CR123A 3V battery. Use of a different battery may cause a detrimental effect on alarm operation.
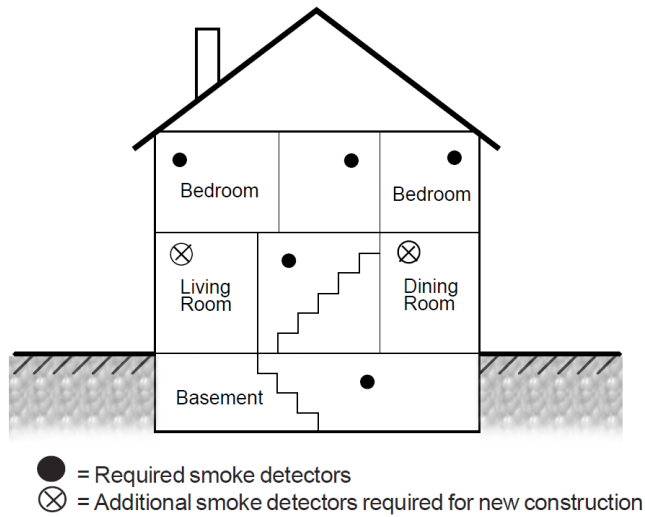
   Note:

   Low temperature will reduce the battery life. For example, if the ambient temperature is 0° C, battery life will less than 10 years.

   To ensure the product life and quality is as expected, please replace the whole device after it is triggered by a fire event.

Locations to install your SZ-SMK03N

Smoke alarms should be installed in accordance with the NFPA Standard 72 (National Fire Protection Association, Battery march Park, Quincy, MA 02169). For complete coverage, smoke alarms should be installed in all rooms, halls, storage areas, basements, and attics in each family. Minimum coverage is one device in each floor and another one in sleeping area.

- Install a smoke alarm in the hallway outside every bedroom area. For example, two alarms are required for homes with two bedroom areas.
- Install a smoke alarm on every floor of a multi-floor home or apartment.
- Install at least two alarms in a household.
- Install a smoke alarm inside every bedroom.
- Install smoke alarms at both ends of a bedroom hallway if the hallway is more than 40 feet (12 meters) long.
- Install a smoke alarm inside every room where a person sleeps with the door partly or completely closed, since smoke could be blocked by the closed door and a hallway alarm may not wake up the person if the door is closed.

● = Required smoke detectors
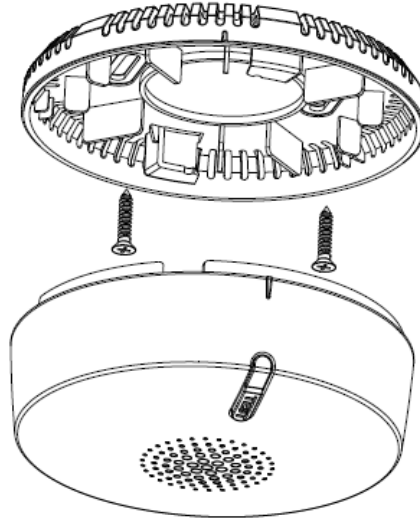⊗ = Additional smoke detectors required for new construction

Do not place the device in the following areas:

- Combustion particles are the by-products of something that is burning. Thus, in or near areas where combustion particles are present you do not install the smoke alarms to avoid nuisance alarms, such as kitchens with few windows or poor ventilation, garages where there may be vehicle exhaust, near furnaces, hot water heaters, and space heaters.

- Do not install smoke alarms less than 20 feet (6 meters) away from places where combustion particles are normally present, like kitchens. If a 20-foot distance is not possible, e.g. in a mobile home, try to install the alarm as far away from the combustion particles as possible, preferably on the wall. To prevent nuisance alarm alarms, provide good ventilation in such places. Within 5 feet (1.5 meter) of open flame appliances such as furnaces, stoves and fireplaces

Wall Mounting

1. Draw a four inches horizontal line at the place where you are going to install the device.
2. Draw 2 marks to locate the screws.
3. Drill two holes at the marks and insert screws and wall plugs.
4. Attach the bracket to the wall by using the supplied two screws and wall plugs.
5. Attach the device onto the mounting bracket and turn it clockwise to fix it into place. Make sure it is securely attached to the mounting bracket.

Adding/Leaving to a ZigBee Network

1. **Join Function**

   For "Join" a network, please do the following instruction:

   - Install the RF battery and the Join/Leave Green LED will start blinking every 5 seconds which indicates SZ-SMK03N is ready to join a ZigBee network.
   - The device will attempt to joing a ZigBee network for 20 times (total 100 seconds). If all attempts fail, SZ-SMK03N will stop joininig process, and need to press and release the tamper again to start joinging process.

2. **Leave Function**

   For "Leave" a network, please do the following instruction:

   - Press the tamper while install the battery.
   - Release the tamper within 4 seconds and ZigBee Module will be reset to factory default.

Adding/Leaving to a ZigBee Network

3. **Test/Silence Button**

   The **Test** button is used to test if the device is working properly and mute the SZ-SMK03N during alarm.

   - **Test**

   Press the **Test** button for about 3 seconds until it alarms. The device will generate 3 beeps, pause and 3 beeps. While the Alarm (red) LED will flash continuously and rapidly.

   - **Silence**

   If the device is alarming, press the **Test** button will have it silenced. If the smoke still remains after 10 minutes, the device will alarm again.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.