1. INTRODUCTION

SMD-426 PG2 (photoelectric smoke detector) and SMD-427 PG2 (heat and photoelectric smoke detector) are automatic fire detectors with integral audible signal for open area protection, designed to sense heat or smoke (not flame) and fitted with a PowerG type transceiver.

SMD-426 PG2 / SMD-427 PG2 provides early warning of developing fire by sounding an alarm with its built-in alarm horn, and by transmitting a coded alarm signal to a PowerG receiver or to a compatible wireless alarm control panel.

SMD-427 PG2 will activate a fire alarm upon either smoke or heat condition. With two fire sensors (heat and smoke), the SMD-427 PG2 detector may shorten the time to fire alarm activation.

It must be borne in mind, though, that effective pre-warniing of fire accidents is only possible if the detector is located, installed and maintained as described here.

In alarm condition, the buzzer sound can be stopped for 8 minutes (UL) and 10 minutes (EN) by pressing the TEST/MUTE switch. It will not restore the alarm condition, but will temporarily silence the buzzer while you correct the condition. After 8 minutes (UL) and 10 minutes (EN), the detector restarts the alarm buzzer sound.

Note: The TEST/MUTE switch functions as TEST switch (in normal operation) or as MUTE switch (in alarm condition).

The detector can also operate as a siren to indicate a fire alarm in other areas covered by the alarm system, or to indicate burglar alarm events, as configured through the control panel (see the PowerMaster Installer Guide).

The tamper switch actuator (Figures 9a and 9b) is pressed against the bracket when the unit is attached to the bracket. Removal of the unit from the bracket causes the switch contacts to open, creating a tamper event, which is reported by the transceiver to the alarm system control panel.

Note: When the tamper switch is opened the detector becomes not ready for operation.

2. INSTALLATION

2.1 Disassembly

Separate the unit from its mounting bracket as shown in Figure 2.

1. Hold the bracket with one hand
2. Rotate the detector anticlockwise and pull it from the bracket

A. BRACKET
B. DETECTOR

Figure 2. Separating the Detector from Its Bracket

2.2 Where to Install Smoke Detectors

WARNING! To comply with FCC and IC RF exposure compliance requirements, the smoke detector should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.

Smoke detectors should be installed in accordance with the NFPA Standard 74 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02169): For complete coverage in residential units, smoke detectors should be installed in all rooms, halls, storage areas, basements and attics in each family living unit. Minimum coverage is one detector on each floor and one in each sleeping area and attics in each family living unit. For maximum protection, a smoke detector should be located outside primary sleeping areas or on each level of your home. Here are a few useful tips for you:

- Install a smoke detector in the hallway outside every separate bedroom area, as in Figure 3. Two detectors are required in homes with two bedroom areas, as in Figure 4.
- Install a smoke detector on every floor of a multi-floor home or apartment, as shown in Figure 5.
- Install a minimum of two detectors in any household.
- Install a smoke detector inside every bedroom.
- Install smoke detectors at both ends of a bedroom hallway if the hallway is more than 12 meters (40 feet) long.

A. DINING ROOM
B. KITCHEN
C. BEDROOM
D. LIVING ROOM
E. SMOKE DETECTORS FOR MINIMUM PROTECTION
F. SMOKE DETECTORS FOR MORE PROTECTION

Figure 3. Locations for Placing Smoke Detectors in a Single Residence with only One Sleeping Area
- Install a smoke detector inside every room where one 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 sleeper if the door is closed.

A. FAMILY ROOM  
B. KITCHEN  
C. DINING ROOM  
D. BEDROOM  
E. LIVING ROOM  
F. SMOKE DETECTORS FOR MINIMUM PROTECTION  
G. SMOKE DETECTORS FOR MORE PROTECTION

![Diagram of smoke detector locations](image_url)

**Figure 4. Locations for Placing Smoke Detectors in Single-Floor Residence with More than One Sleeping Area.**

- Install basement detectors at the bottom of the basement stairwell.
- Install second-floor detectors at the top of the first-to-second floor stairwell.
- Be sure no door or other obstruction blocks the path of smoke to the detector.
- Install additional detectors in your living room, dining room, family room, attic, utility and storage rooms.
- Install smoke detectors as close to the center of the ceiling as possible. If this is not practical, put the detector on the ceiling, at least 10 cm (4 inches) away from any wall or corner, as shown in Figure 6.
- If ceiling mounting is not possible and wall mounting is permitted by your local and state codes, locate the detectors between 10 - 15 cm (4 - 6 inches) from the ceiling, also see Figure 6.
- If some of your rooms have sloped, peaked, or gabled ceilings, try to mount detectors 0.9 meter (3 feet) measured horizontally from the highest point of the ceiling as shown in Figure 7.

**Figure 5. Placing Smoke Detectors in a Multi-Floor Residence**

- Install a smoke detector in the hallway near the main entrance. The flow of air in and out can drive smoke away from the smoke detector; thus providing good ventilation in such places.

**CAUTION (As required by the California State Fire Marshall)**

"Early warning fire detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows:

1. A smoke detector installed in each separate sleeping area (in the vicinity, but outside the bedrooms), and 2. Heat or smoke detectors in the living rooms, dining rooms, bedrooms, kitchens, hallways, attics, furnace rooms, closets, utility and storage rooms, basements and attached garages."
• In insect-infested areas. If insects enter a detector's sensing chamber, they may cause a false alarm. Where bugs are a problem, get rid of them before putting up a detector.
• Near fluorescent lights, electrical "noise" from fluorescent lights may cause false alarms. Install smoke detectors at least 1.5 meters (5 feet) from such lights.
• Smoke detection depends on the smoke density present in a room. Smoke density is greater in small rooms, for the same amount of smoke, than in large rooms. In small rooms less than 25 cubic meters (883 cubic ft.) in size, a small amount of smoke may activate a smoke alert. For example, smoking or bathroom steam may activate a smoke alert.

![Figure 8. Recommended Smoke Detector Locations to Avoid Air Streams with Combustion Particles](image)

**WARNING:** Never remove batteries to stop a false alarm. Open a window or fan the air around the detector to get rid of the smoke. The alarm will turn itself off when the smoke is gone. If false alarms persist, attempt to clean the detector as described in this manual.

**WARNING:** Do not stand close to the detector when the alarm is sounding. The alarm is loud in order to wake you in an emergency. Too much exposure to the horn at close range may be harmful to your hearing.

### 2.4 Audible and Visual Indications

The dual color LED, buzzer and siren are used to signal various alarm and trouble messages as shown in Table 1 below:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Visual Indication (LEDs)</th>
<th>Audio Indication (buzzer or siren)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoke alarm</td>
<td>Flash every 500ms</td>
<td>3 long beeps every 4 sec.</td>
</tr>
<tr>
<td>Heat alarm (***</td>
<td>Flash every 500ms</td>
<td>Long beep every 2 sec.</td>
</tr>
<tr>
<td>Tamper alarm (*)</td>
<td>-</td>
<td>Long beep every 2 sec.</td>
</tr>
<tr>
<td>Standby</td>
<td>Flash every 30 sec.</td>
<td>-</td>
</tr>
<tr>
<td>Low battery</td>
<td>Flash every 30 sec.</td>
<td>-</td>
</tr>
<tr>
<td>Smoke sensor trouble</td>
<td>Flash every 60 sec.</td>
<td>3 Flashes every 60 sec.</td>
</tr>
<tr>
<td>Low sensitivity alarm</td>
<td>Flash every 30 sec. (**)</td>
<td>-</td>
</tr>
<tr>
<td>Heat sensor trouble (***</td>
<td>Flash every 60 sec.</td>
<td>5 Flashes every 60 sec.</td>
</tr>
<tr>
<td>Need to clean</td>
<td>2 flashes every 30 sec.</td>
<td>-</td>
</tr>
<tr>
<td>Burglar (siren)</td>
<td>-</td>
<td>2 short beeps every 30 sec.</td>
</tr>
<tr>
<td>Fire (siren)</td>
<td>-</td>
<td>Steady tone</td>
</tr>
<tr>
<td>Gas (siren)</td>
<td>-</td>
<td>3 short tones every 1.5 sec.</td>
</tr>
<tr>
<td>Flood (siren)</td>
<td>-</td>
<td>4 rapid tones every 5 sec.</td>
</tr>
<tr>
<td>Test</td>
<td>See par. 3 &quot;Smoke Detector Test&quot;</td>
<td></td>
</tr>
</tbody>
</table>

* The tamper alarm will mute for 3 minutes at first power on, and will revert to normal mode when the tamper switch condition is changed.
** Delay of 15 sec. between buzzer beep and LED operation
*** SMD-427 PG2 only

### 2.5 Battery Connection and Initial Test

**Attention:** The detector battery cover is fitted with a red button that prevents the detector from locking onto bracket if there is no battery inside. The smoke detector is supplied with a 3V CR123A / CR17450 battery. Battery connection for both types of batteries is illustrated in Figures 9a and 9b below.

![Figure 9a. Battery Connection for CR123A](image)
2.6 Resetting the Transceiver Module

Closing the tamper switch initiates reset of the transceiver.

2.7 Enrollment

Refer to the PowerMaster panel's Installer Guide and follow the procedure under the "02:ZONES/DEVICES" option of the Installer Menu. A general description of the procedure is provided in the following flow chart.

![Flow Chart](image)

Notes:
1. If the smoke detector is already enrolled you can configure the smoke detector parameters via the "Modify Devices" option – see Step 2.
2. Select the "Device Settings" option and refer to section 2.8 to configure the smoke detector parameters.

2.8 Configuring the Smoke Detector Parameters

Enter the **DEV SETTINGS** menu and follow the configuration instructions for the SMD-426 PG2 (smoke detector) and SMD-427 PG2 (heat and smoke detector) as described in the following table.

<table>
<thead>
<tr>
<th>Option</th>
<th>Configuration Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burglary Siren</td>
<td>Here you determine whether or not the detector will activate a burglary alarm. Options: <strong>ON</strong> and <strong>OFF</strong> (default).</td>
</tr>
<tr>
<td>Fire Siren</td>
<td>Here you determine whether or not the detector will activate a fire alarm. Options: <strong>ON</strong> and <strong>OFF</strong> (default).</td>
</tr>
<tr>
<td>Gas / CO Siren</td>
<td>Here you determine whether or not the detector will activate a gas alarm. Options: <strong>ON</strong> and <strong>OFF</strong> (default).</td>
</tr>
<tr>
<td>Flood Siren</td>
<td>Here you determine whether or not the detector will activate a flood alarm. Options: <strong>ON</strong> and <strong>OFF</strong> (default).</td>
</tr>
</tbody>
</table>
3. SMOKE DETECTOR TEST

Notes:
i) Insert the battery and then mount the detector on the bracket before conducting the smoke detector test.
ii) After the battery is inserted, the detector enters the Local Diagnostic Test Mode for 15 minutes.
iii) It is recommended to test the detector when conducting the Periodic Test using the User Code (User Diagnostic Mode) or when conducting the Periodic Test using the Installer Code (Installer Diagnostic Mode).

Caution! The diagnostics test cannot be performed while tamper is in "open" state.

Enter the test mode by pressing the test button for 2 seconds and release it. In this mode, the detector will test smoke, heat and battery functions. If all functions are good, the red LED lights 0.5s, off 0.5s, the yellow LED lights 0.5s, off 0.5s followed by a loud 3-beep alarm and the red LED flashes simultaneously. Otherwise, the detector produces the warning signals as detailed in Table 1.

If the detector is in any diagnostics mode (see Notes above), the detector performs the diagnostics test as described below.

Diagnostics Test
A. The detector performs a communication quality test and visual indication by LED (lights orange).
B. When the LED lights orange (red and green), this indicates correct operation of the LEDs.
C. The detector now performs the link quality test.
   Note: If the detector is not in local diagnostics or installer diagnostics mode, the detector will not perform the link quality test.
D. At the end of the diagnostics test the LED blinks 3 times.

The following table indicates received signal strength indication.

<table>
<thead>
<tr>
<th>LED response</th>
<th>Reception</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green LED blinks</td>
<td>Strong</td>
</tr>
<tr>
<td>Orange LED blinks</td>
<td>Good</td>
</tr>
<tr>
<td>Red LED blinks</td>
<td>Poor</td>
</tr>
<tr>
<td>No blinks</td>
<td>No communication</td>
</tr>
</tbody>
</table>

IMPORTANT! Reliable reception must be assured. Therefore, "poor" signal strength is not acceptable. If you receive a "poor" signal from the detector, relocate it and re-test until a "good" or "strong" signal strength is received.
1. For detailed Diagnostics Test instructions refer to the control panel Installer Guide.
2. For UL/CUL installations, the test result must be "Strong".

4. MOUNTING

1. Mark and drill 2 holes in the mounting surface. Fasten the bracket to the mounting surface with 2 screws.
2. Align bracket tabs with the detector slots and rotate the detector as shown. Pull the detector outward to verify that it is securely attached.

Figure 10. Mounting

A. Mounting surface
B. BRACKET
C. DETECTOR
D. Tab (1 of 3)

Notes
1. A battery must be inserted into the detector before the detector can be mounted onto the bracket.
2. Ensure that the bracket is tightly secured to the installation surface.
3. Ensure that the detector and the bracket are clean from any concrete or gypsum dust from adjacent walls or ceiling.
4. Unauthorized removal of the unit from the bracket will initiate a tamper alert.

5. SMOKE DETECTOR LIMITATIONS

A. This smoke detector is designed for use in a single residential unit or offices, which means that it should be used inside a single family home or apartment or office.

B. Please refer to NFPA 101, the Life Safety Code, NFPA72 for smoke detector requirements for fire protection in buildings not defined as "households".

C. The smoke detector will not sense a fire if the smoke does not reach the sensor. In order for a smoke detector to sense smoke, it must be installed in the immediate vicinity of the fire.

In addition, smoke from fires in chimneys, in walls, on roofs, in remote parts of the building, or on another level from where the smoke detector is located, may not reach the smoke detector quickly enough for occupants to escape unharmed. For this reason, installer shall install smoke detectors on every level, in every sleeping area and in every bedroom of the household.

D. Smoke detector may not be heard. The alarm horn in this smoke detector meets or exceeds current Underwriter's Laboratories standards. However, if the smoke detector is not located in the same room as the occupant or if it is blocked by a closed door or normal noise, the alarm horn may not be heard. In addition, sound sleepers, or persons who are under the influence of drugs or alcohol may not hear the alarm or be able to react to it. Therefore, locate this smoke detector, which has a sounder rated at 85 dB at 10 feet, on every level, in every sleeping area and in every bedroom of the household.
E. This detector, if used as a stand-alone unit, will not alert people who are hard of hearing.
F. In general, detectors may not always warn you about fires caused by carelessness and safety hazards like smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.
G. Smoke detectors are not fool-proof. Like all electronic devices, smoke detectors have limitations. No type of smoke detector can sense every kind of fire every time. In addition, smoke from slow, smoldering fires rises slowly and may not reach the smoke detector until actual flame breaks out. This type of smoke may not reach the smoke detector in time for occupants to escape unharmed.
H. Smoke detectors are not a substitute for life or property insurance. Though smoke detectors have been responsible for saving many lives, they are not warranted or implied to protect lives or property in the event of fire.
I. These wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by the regulatory authorities), there are some limitations to be considered:
   i) Receivers may be blocked by radio signals on or near their operating frequencies, regardless of the code selected.
   ii) A receiver can only respond to one transmitted signal at a time.
   iii) Wireless equipment should be tested regularly to determine whether there are sources of interference and to protect against faults.

6. TAKING CARE OF THE SMD-426 PG2 or SMD-427 PG2

6.1 Battery Replacement
The SMD-426 PG2 and SMD-427 PG2 were designed to be as maintenance-free as possible. To keep the smoke detector in good working order, you must test it weekly, as instructed in par. 3 "Smoke Detector Test".
Make it a rule to replace the detector’s battery (lithium) once every 8 years even if there is no indication that the battery is weak. Also be sure to replace it immediately upon reception of a low battery message via your control panel.
If you disregard this message, an audible reminder in the form of once-per-minute "beep" will sound after a few days. The low-battery "beep" should last at least 30 days before the battery dies out completely.

NOTE: For best performance, use only lithium batteries as replacement batteries (see Specifications). Carbon zinc batteries are not acceptable.
Replace the battery as follows:
A. Separate the detector from its bracket (see Figure 2).
B. Replace battery (see Figure 9a or Figure 9b according to the battery used).

6.2 Maintenance
It is necessary to maintain the detector frequently to ensure it working properly. Follow these tips for taking care of your detector:
Use a vacuum cleaner to clean the air vents occasionally to keep them free of dust. When a “Clean Warning” transmission is received, the detector should be tested weekly and also whenever you suspect that it does not go into alarm (for further details see par. 3 “Smoke Detector Test”).

7. ADDITIONAL ADVICE

7.1 Routine Testing
The detector should be tested weekly and also whenever you suspect that it does not go into alarm (for further details see par. 3 “Smoke Detector Test”). If the detector fails, have it repaired or replaced immediately, to ensure that it works properly.
Every 3 months the smoke detector must be checked by using smoke detectors test sprayer.
WARNING: Never use an open flame of any kind to test your detector. You may set fire to damage the detector as well as your home. The built-in test switch accurately tests all detector functions, as required by Underwriters’ Laboratories.

NOTE: If the alarm horn produces a loud continuous sound and the red LED flashes when you are not testing the unit, this means the detector has sensed smoke or combustion particles in the air. Verify that the alarm is a result of a possible serious situation, which requires your immediate attention.
• The alarm could be caused by a false situation. Cooking smoke or a dusty furnace, sometimes called “friendly fires” can cause the alarm to sound. If this happens, open a window or fan the air away to remove the smoke or dust. The alarm will turn off as soon as the air is completely clear.

CAUTION: Do not disconnect the battery from the detector. This will remove your protection from fires.
• If there is any question as to the cause of an alarm, it should be assumed that the alarm is due to an actual fire and the residence should be evacuated immediately.
If the alarm horn begins to beep once every 30 sec (for further details, see table in par. 2.4 “Audible and Visual Indications”), this signal means that the detector’s battery is weak. Install a new battery immediately. Keep fresh batteries on hand for this purpose.

7.2 Tips to Enhance Your Protection From Fires
Putting up smoke detectors is only one step in protecting your family from fires. You must also reduce the chances of fires starting in your home. You must also increase your chances of escaping safely if one does start. To have a good fire safety program you must apply the following tips to enhance your family’s protection from fires:
A. Install smoke detectors properly. Carefully follow all the instructions in this manual. Keep your smoke detectors clean and test them every week.
B. Remember that detectors that do not work will not alert you. Replace your smoke detectors immediately if they are not working properly.
C. Follow fire safety rules, and prevent hazardous situations:
   • Use smoking materials properly. Never smoke in bed.
   • Keep matches and cigarette lighters away from children.
   • Store flammable materials in proper containers. Never use them near open flame or sparks.
   • Keep electrical appliances in good condition. Do not overload electrical circuits.
   • Keep stoves, fireplaces, chimneys, and barbecue grills grease free. Make sure they are properly installed and away from any combustible materials.
   • Keep portable heaters and open flames such as candles away from combustible materials.
   • Do not allow rubbish to accumulate.
   • Keep a supply of extra batteries on hand for your battery powered smoke detectors.
D. Develop a family escape plan and practice it with your entire family. Be sure to include small children in your practice.
   • Draw a floor plan of your home, and find two ways to exit from each room. There should be one way to get out of each bedroom without opening the door.
Compliance with Standards

- **EN 50131-1 Security Grade**
- **EN 50131-1 Environmental Class**
- **FCC Compliance Statement**

This device 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 residential installations. 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 and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

**WARNING!** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

APPENDIX: SPECIFICATIONS

**Alarm Sound Level**
85 dB at 3 m (10 feet)

**WIRELESS**

- **Frequency Band (Mhz)**
- **Communication Protocol**
- **Tamper Alerts**

**ALARM REPORT**

In the alarm condition, the detector sends the alarm event to the control panel. When the alarm condition is restored, the detector sends an alarm restore event to the control panel and sets the alarm restore indication.

*Note:* The alarm restore indication can be cleared via the control panel only.

**ELECTRICAL DATA**

- **Power Source**
- **Operation Voltage**
- **Current Drain**
- **Smoke Density**

**ELECTRICAL DATA**

- **Frequency Band (MHz)**
- **Alarm Sound Level**

**PHYSICAL DATA**

- **Weight (with battery)**
  - SMD-426 PG2: 185 g (6.5 oz)
  - SMD-427 PG2: 205 g (7.2 oz)

**APPENDIX: SPECIFICATIONS**

**WARRANTY**

Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warrant is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturer's recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturer's discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty. The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the possibility of such damage.

This Warranty shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or installation of any telecommunication or electronic equipment or any programs. The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs. The Manufacturer's obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for any consequential or incidental damages, losses or expenses, including loss of use, profits, revenue, or goodwill, directly or indirectly arising from Purchaser's use or inability to use the Product, or for loss or destruction of other property or from any other cause, even if Manufacturer has been advised of the possibility of such damage.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, THE MANUFACTURER'S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer when accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of.

The Manufacturer does not warrant this Product against damage or loss whatsoever, whether directly, indirectly, incidentally, consequential or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable. This Warranty in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country where the Product is supplied shall not apply.

Warning: The user must follow the Manufacturer's installation and operational instructions including testing the Product to ensure it is in working order and in its original condition.

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**APPENDIX: SPECIFICATIONS**

**ELECTRICAL DATA**

- **Power Source**
  - 3 Volt CR123A / CR17450 lithium. CR17450 not tested by UL.
- **Operation Voltage**
  - From 2.5 V to 3 V.
- **Current Drain**
  - 22 µA standby, 200 mA max. in operation.
- **Smoke Density**
  - Europe: 0.09 – 0.14 dB/m
  - USA: 1.44%/ft to 2.74%/ft
- **Cover Range**
  - Automatic transmission of battery status data as part of any transmitted message.
- **Battery Life expectancy**
  - Battery life exceeds the minimum required by UL 268. Visonic warranties a 5-year battery life.
- **Low Battery Threshold**
  - 2.5 V
- **Audible and Visual Low Battery Warning**
  - Built-in horn beeps every 30 seconds simultaneously with red LED flashing (for up to 30 days when the battery voltage drops).
- **Audible and Visual Degraded Chamber Sensitivity Warning**
  - Built-in horn beeps every 30 seconds in the middle of red LED flashing intervals – indicates that the detector must be replaced.
- **Clean Warning Transmission**
  - A clean (maintenance) signal is transmitted when the detector's chamber becomes stained, causing the detector to operate at high sensitivity.
- **Heat Sensor Alarm Threshold**
  - For UL installations, Heat Sensor Alarm Threshold is 68 °C (154 °F).
- **Operating Temperatures**
  - -10°C to 50°C (14°F to 122°F) indoor.
- **Relative Humidity**
  - 10% to 85%
- **Dimensions**
  - SMD-426 PG2: 120 mm (4.7") x 58 mm (2.3")
  - SMD-427 PG2: 120 mm (4.7") x 63 mm (2.5")
- **Weight (with battery)**
  - 165 g (6.5 oz)