GENERAL INFORMATION

This is a multi-criteria wireless smoke detector which employs advanced levels of detection and discrimination. This reduces common cooking nuisance alarms and allows faster detection to different types of fire conditions. It is intended for use with Control Panels that support 5800 series devices.

To remove the mounting bracket, turn the top of the detector 15 degrees counterclockwise and separate the mounting bracket and top cover.

5800SMOKEV

Open

ENROLLMENT

The smoke detector must be enrolled in the Control Panel before it can operate in the system. The 5800SMOKEV smoke/heat protection zone must be enrolled as Loop 1 and "Input Type" 3 (supervised RF).

If programmed, this smoke detector is capable of monitoring the additional conditions of Maintenance (transmitted as Loop 2), and Low Temperature (transmitted as Loop 3). Tamper is transmitted as Loop 4, but does not require programming. To take advantage of the value added features of Maintenance and Low Temperature, you must program each loop as a separate zone in the 5800 series wireless compatible panel.

1. Enter the Control's Zone Programming mode.

2. Enter the zone number to be programmed.

3. Enter the applicable zone type when prompted. Program

   - Loop 1 (Heat/Smoke) as a Fire zone (type 9 or 16),
   - Loop 2 (High/Low Maintenance) as a 24-Hr. Trouble zone (type 19), and
   - Loop 3 (Freeze Warning Sensor) as a 24-Hr. Aux. zone (type 8).

   NOTE: Loop 2 High/Low Maintenance is supported only on commercial control panels such as the Vista-128FBP.

4. When prompted, enter Input Type 03 (3 on some control panels) – Supervised RF Transmitter.

5. When prompted for the serial number, transmit from the detector by activating the tamper switch. To do this, hold the base of the detector in one hand, and rotate the detector counterclockwise on the base until it snaps open. Then return to clockwise position until the detector snaps into place.

6. When the serial number is displayed, transmit from the detector a second time by activating the tamper switch again as described in Step 5. The current loop number (4) will begin to flash.

7. Manually change the loop number to the desired loop number for the zone (according to the application).

8. When programming for this zone is complete, program other zones for the transmitter as necessary (except for Tamper Loop 4, which does not require programming).

   WARNING: The fire protection zone enrolled must always be Loop 1. Otherwise, fire annunciations will not be reported by the Control Panel.

9. Exit Programming mode when programming is complete and test the detector. Refer to the Testing Section.

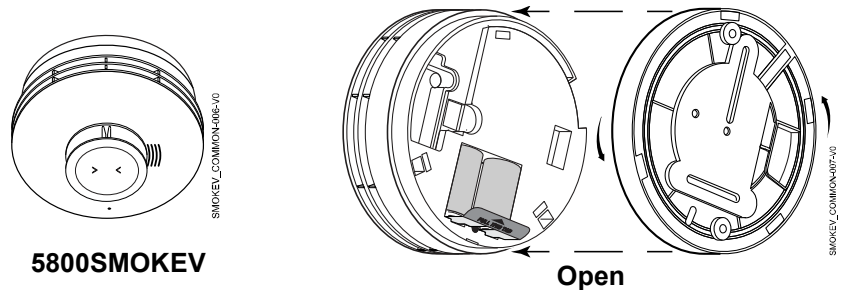See the Control Panel's installation instructions for further details.

PROGRAM

Consult the Control Panel's instructions to program the device in the system. This detector reports the following signals to the Control Panel:

- Smoke and Heat detection
  - Smoke Alarm when smoke is detected
  - Heat Alarm when temperature of 135° F (57° C) or greater
  - Rate-of-Rise Alarm when temperature is >104° F (40° C) @ 15° F/minute (8.33° C/minute).
- Maintenance: Contaminated chamber that requires cleaning
- End-of-Life
- Base Tamper: It sends a tamper signal to the Control Panel when the smoke head is removed from its base.
- Supervision: The detector will transmit its status every 60-70 minutes.

TAMPER
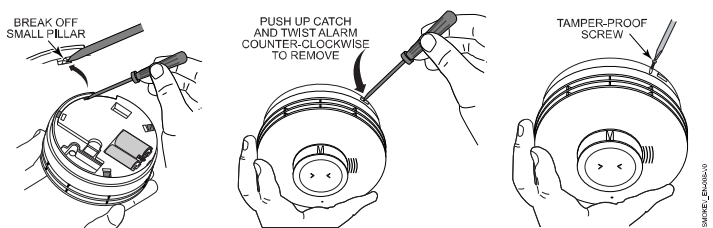
When the detector is removed from its base, it sends a tamper signal to the Control Panel. OPTIONAL: The detector can be made tamper-proof to prevent unauthorized removal from its base. Break off the small pillar on the base as shown. This causes the detector to latch to the base. From this point on, to remove the detector from its base, you must use a small screwdriver to release the catch (push the catch towards the base) and twist the detector counterclockwise. A screw can be added to prevent removal from the base.

BREAK OFF SMALL PILLAR

PUSH UP CATCH AND TWIST ALARM COUNTER-CLOCKWISE TO REMOVE
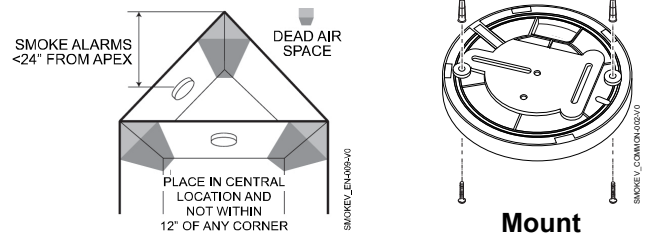
TAMPER-PROOF SCREW

MOUNT

Refer to the Limitations of Fire Alarm Systems (P/N 800-15144) for detailed information on detector spacing, placement zoning and special applications. Copies of this document are available on www.resideo.com.

NOTE: Before mounting the detector permanently, conduct a Walk test (see Control Panel's instructions) to verify adequate signal strength and adjust the device location and orientation as necessary.

The detector can be mounted on the ceiling or on the wall (if local ordinances permit). Select a location and mount using the included mounting hardware.

SMOKE ALARMS <24" FROM APEX

DEAD AIR SPACE

PLACE IN CENTRAL LOCATION AND NOT WITHIN 12" OF ANY CORNER

Mount

> ⚠ DO NOT attach the detector to removable ceiling panels. Attach the detector across panel support as shown on the accompanying figure.
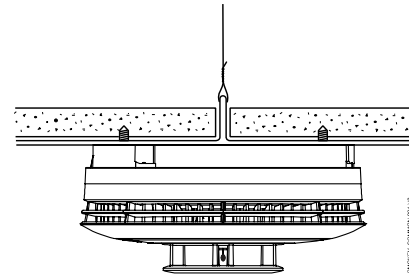
TESTING

The detector should be tested immediately after installation and at least once a year.

Recommended: Notify the Central Station that the smoke detector is undergoing tests, so they do not dispatch authorities.
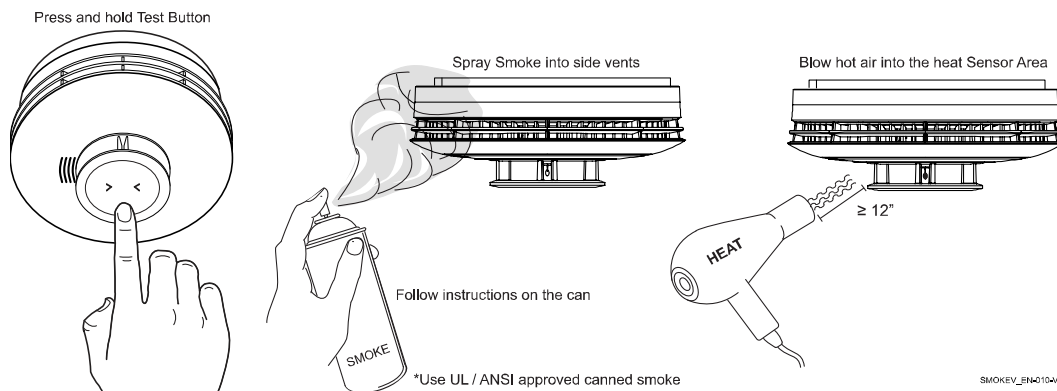
After enrolling, verify adequate signal strength by conducting a sensor test (see the Control Panel's instructions) with the device in its intended mounting location. Adjust the device location and orientation as necessary.

Tests and testing methods

There is no specific Test Mode that needs to be initiated to test smoke, heat, or Rate-of-Rise. These can be applied to the detector at any time as a test.

- Test Button – When the Test Button is held down, the unit initiates a test on the smoke sensor, chamber, heat sensor, End-of-Life, and battery. If all tests pass, it sounds a normal alarm and sends alarm signal to the Control Panel. However, if one of these tests fails, it sends a trouble signal to the Control Panel and provides fail status on the yellow led and sounder. The Test Button is also used to silence or Hush the detector. To Hush the detector, press and release the large Test Button. Depending on how much smoke is still in the chamber determines if the Hush feature silences the detector and make it send an Alarm restore to the Control Panel. If there is too much smoke still in the chamber, it does not Hush nor send a restore to the Control Panel. When Hush is successful, the sounder comes back on after 10 minutes and a restore signal is still not sent provided there is still enough smoke in the chamber to be considered an alarm. Once the smoke level is below threshold in the chamber, Hush causes the sounder to remain off and the restore signal is sent. See the LED and Sounder Indication Chart on the next page.
- Smoke Entry Test (canned smoke*) – Can be done at any time. Once the chamber is clear, the sounder will stop, and it will send a restore signal to the Control Panel.
- Direct Heat Test (hair dryer 12" or further from the detector)
- 135° F fixed Heat Detection
- Rate-of-Rise >104° F (40° C) @ 15° F/minute (8.33° C/minute).

CAUTION: The detector alarms when 135° F is exceeded and restore when it falls below 135° F. However, the thermistor is damaged at 195° F and the integrity of the detector itself is compromised and needs to be replaced.

Press and hold Test Button

Spray Smoke into side vents

Follow instructions on the can

*Use UL / ANSI approved canned smoke

Blow hot air into the heat Sensor Area

HEAT ≥ 12"

LEDS AND SOUNDER

The 5800SMOKEV has one bi-color (red and yellow) LED with an 85dB sounder. Refer to the following table below for operation of these features.

Test Button
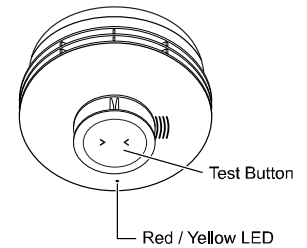
Red / Yellow LED

LED and Sounder Indication Chart

Normal Operation	Action	Red LED	Yellow LED	Sounder	Reaction
Power Up	Pull Battery Tab	1 Flash	1 Flash	Off	
Tamper	Remove from base	Off	Off	Off	
Standby - Normal		Off	Off	Off	
Sensing Smoke / Heat	Smoke / Fire Condition	Rapid flashing	Off	Temporal 3	Evacuate Premises
Alarm Hush	**Action**	**Red LED**	**Yellow LED**	**Sounder**	**Reaction**
Silence Sounding Alarm	Press & Release Button	1 flash every 8 seconds	Off	Off for 10 mins	
Silence Low Battery	Press & Release Button	Off	Off for 12 hours	Off for 12 hours	Replace both batteries
Silence Faulty Sensor (only possible once)	Press & Release Button	Off	2 flashes every 48 seconds	Off for 12 hours	Replace unit
Silence End of Life (up to 30 days)	Press & Release Button	Off	Off for 72 hours	Off for 72 hours	Replace unit
Self-Diagnostics	**Action**	**Red LED**	**Yellow LED**	**Sounder**	**Reaction**
Low Battery	Automatic every 16 minutes	Off	1 flash every 48 seconds	1 beep with 1 flash	Replace both batteries
Faulty Smoke Sensor	Automatic every 16 seconds	Off	2 flashes every 48 seconds	2 beeps with 2 flashes	Replace unit
Faulty Heat Sensor	Automatic every second	Off	2 flashes every 48 seconds	2 beeps with 2 flashes	Replace unit
End of Life	Automatic every 4 hours	Off	3 flashes every 48 seconds	3 beeps with 3 flashes	Replace unit
Maintenance	Automatic every 16 seconds	Off	4 flashes every 48 seconds	Off	Clean unit; see Cleaning section
Test Button	**Action**	**Red LED**	**Yellow LED**	**Sounder**	**Reaction**
Detector Status Good – Normal Alarm	Press & Hold Button	Rapid flashing	Off	Temporal 3	Release button
Low Battery	Press & Hold Button	Off	1 flash then rapid flashing	1 beep then Temporal 3	Replace both batteries
Faulty Sensor	Press & Hold Button	Off	2 flashes then rapid flashing	2 beeps only	Replace unit
End of Life	Press & Hold Button	Off	3 flashes then rapid flashing	3 beeps then Temporal 3	Replace unit
Maintenance	Press & Hold Button	Off	4 flashes then rapid flashing	4 beeps then Temporal 3	Clean unit; see Cleaning section
Alarm Memory	**Action**	**Red LED**	**Yellow LED**	**Sounder**	**Reaction**
24 Hour Memory	After Alarm	2 flashes every 48 seconds for 24 hours	Off	Off	Press & Hold Button for Long Term Memory
Long Term Memory	Press & Hold Button	Rapid flashing	Off	Rapid chirping	Memory is reset after releasing the test button

CLEANING

Recommended: To prevent unwanted alarms, notify the Central Station that the smoke detector system is undergoing maintenance before cleaning the detector.

To clean the detector, carefully vacuum the side vents all the way around, then, wipe them with a clean damp cloth and dry thoroughly.

Do NOT attempt to take the detector apart. This could result in damaging the unit.
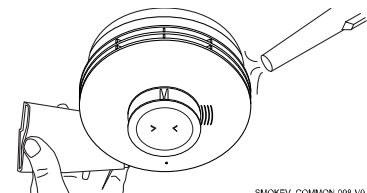

Cleaning

BATTERY REPLACEMENT

1. Twist the front cover counterclockwise 15 degrees and separate it from the mounting bracket.
2. Remove both batteries and wait 10 seconds, then insert two new recommended batteries:
   - Panasonic CR123A

NOTE: Do not mix old and new batteries, battery types or manufacturers.

3. Reattach the detector to the mounting plate.

BATTERY CAUTION: Risk of fire, explosion and burns. Do not recharge, disassemble, heat above 212° F (100° C) or incinerate. Dispose of used batteries properly. Keep away from children
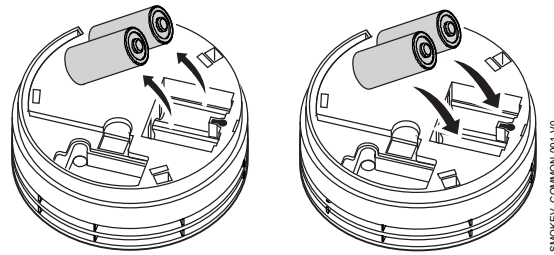
Replace Batteries

5800SMOKEV Series transmitters draw quick bursts of current during transmission, then sit idle with very nominal current draw. Most batteries are not designed for this type of use, therefore, only batteries listed as compatible should be used if the expected battery life is to be attained. Each transmitter's Installation Instructions has listed compatible battery manufacturers and their part numbers. When other non-approved batteries are used, the quick bursts of current draw kill the battery cells prematurely causing them to go low in a matter of months and can also cause unpredictable results. Other low-quality batteries have not been UL tested and pose a safety hazard if used.

SPECIFICATIONS

Smoke Detection: ....Photoelectric
Heat Detection: ....135° F (57° C) or greater +/- 5°F
Rate of Rise: ....>104° F (40° C) @ 15° F/minute (8.33° C/minute).
dB Rating:..>85dBA (Minimum) at 9ft
Batteries: .... Two 3V Lithium; Panasonic CR123A
RF Frequency: 345MHz
Tamper:...Base Tamper
Operating Temperature: ....40° to 100° F / 4.4° to 37.7° C
Relative Humidity: ....95% max. non-condensing
Maximum Spacing: ....50ft x 50ft (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
Dimensions: ....4.74 in. Diameter x 2.31 in. Thick / 12.03 cm Diameter x 5.81 cm Thick

Approval Listings

FCC / IC
UL Listed – Conforms to UL 268 7th Edition Commercial and Residential Installations
ULC Listed – Certified to UL268 & CAN/ULC S529
Other Standards: State of California requirement – free of substances that may cause cancer. Prop 65 US.
NFPA 72

Note: Smoke detectors are not to be used with detector guards unless the combination is evaluated and found suitable for that purpose.

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL WITH WHICH THIS DEVICE IS USED, FOR DETAILS REGARDING LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

FEDERAL COMMUNICATIONS COMMISSION (FCC) & ISED STATEMENTS

The user shall not make any changes or modifications to the equipment unless authorized by the Installation Instructions or User's Manual. Unauthorized changes or modifications could void the user's authority to operate the equipment.

FCC CLASS B DIGITAL DEVICE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, as defined by FCC Rules Part 15.105. The Class B Digital Device statement can be viewed at:
https://customer.resideo.com/en-US/support/residential/codes-and-standards/FCC15105/Pages/default.aspx

ISED CLASS B STATEMENT

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC / ISED STATEMENT

This device complies with Part 15 of the FCC Rules, and Industry Canada's license-exempt RSSs. 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.

Cet appareil est conforme à la partie 15 des règles de la FCC et exempt de licence RSS d'Industrie Canada. Son fonctionnement est soumis aux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences nuisibles. (2) Cet appareil doit accepter toute interférence reçue y compris les interférences causant une réception indésirable.

Responsible Party / Issuer of Supplier's Declaration of Conformity: Ademco Inc., a subsidiary of Resideo Technologies, Inc., 2 Corporate Center Drive., Melville, NY 11747, Ph: 516-577-2000

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