

Installation and Setup Guide

GENERAL INFORMATION

The 5800CMBOV is a 6V battery-powered wireless Combination Smoke and Carbon Monoxide (CO) detector intended for use with wireless alarm systems that support 5800 series devices. Check the control for compatibility with this device. This device occupies 3 control panel zones, one zone for each service (smoke detection, heat detection, carbon monoxide detection).

Compatible Controls: This detector can be used with 5800 series compatible controls (Listed to UL864 and/or UL985) that support a carbon monoxide zone type and utilize a 5881 receiver.

The detector consists of an electrochemical carbon monoxide sensor assembly coupled to a wireless transmitter. The transmitter can send alarm, trouble, end-of-life, tamper, and battery condition messages to the system's receiver. Refer to the wireless system's instructions for the maximum number of transmitters that can be supported.

NOTICE: These instructions should be left with the owner/user of this equipment.

IMPORTANT: This detector must be tested and maintained regularly following NFPA 72 requirements.

WARNING: This product is not intended for use in industrial factories or commercial parking garages.

FEATURES

- Multi-Criteria Sensing: uses three sensing elements to react faster while minimizing false alarms:
 - Photoelectric smoke sensor detects airborne smoke particles
 - Carbon Monoxide (CO) sensor detects CO concentrations
 - Thermal detection monitors for dangerous rise in temperature
- Conforms to UL standard 268 and 2075
CO sensitivity is evaluated to UL 2034
- Certified to CSA Standard 6.19-17 and ULC Standard S529
- 10-year life Carbon Monoxide (CO) sensor
- CO Detector End-of-Life reporting (detector needs replacing)
- Smoke detector maintenance reporting (detector needs cleaning or replacing)
- Low Battery Detection
- Low temperature sensing: senses ambient temperature and reports if temperature drops below 41°F (5°C)
- Voice announcements (English or Spanish)
- Supervised - transmits status every 60 to 70 minutes
- Local sounder
- Dual LEDs
- CO and Smoke Test/Hush buttons
- Functional Gas Test

Refer to the Limitations of Fire Alarm Systems Insert (800-15144), System Smoke Detectors Guide (RD-GS101-39-001; ST-QP-RD-001-039/10Y), and Limitations of Carbon Monoxide Detectors (P/N K14670V1).

LED Indicators

LEDs located on the top and side of the 5800CMBOV and a sounder provide local visual and audible indication of the detector's status.

Top multi-color Status LED:

Green = Blinks during power on, language selection and during Functional Smoke and CO testing

Amber = Signal maintenance and trouble events

Red = Alarm conditions (CO, Smoke or Heat)

Side LED windows (4) indicate alarms:

Red = Smoke or Heat Alarm

Blue = CO alarm

Refer to Table 1 for additional LED information

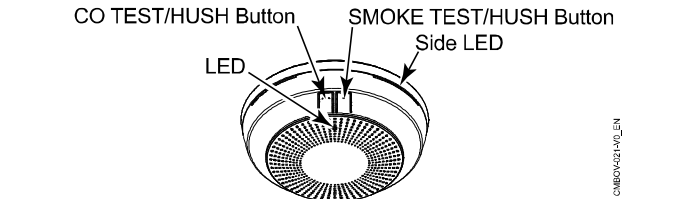


Figure 1. 5800CMBOV Wireless Carbon Monoxide Detector

POWER UP AND ENROLLMENT

- Remove the detector from its mounting base by twisting the detector counterclockwise. (Refer to Figure 2)
- Remove battery pull tab. Be sure batteries are seated properly to avoid a low battery condition after 15 seconds.
- During initial power-up, the Status LED blinks green one time and the sounder will remain silent. It takes about 30 secs for the detector's CO sensor to stabilize.
- Upon power-up the detector prompts for language selection and LED blinks green every two seconds. Select the desired language (within 40 seconds).
 - English: Press the SMOKE TEST/HUSH (•) button
 - Spanish: Press the CO TEST/HUSH (••) button

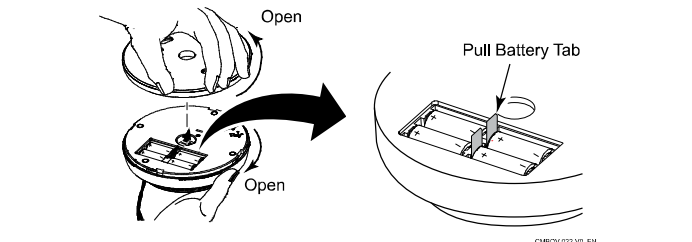


Figure 2. Powering up the 5800CMBOV

Table 1: Detector LED & Sounder Modes

	Status LED (Top)	Side LEDs (Window)	Sounder	Speaker
Power Up	Blink green one time	Dark	Silent	Voice Welcome, instructions and language selection prompt
Power Up (except first power up)	Blink green one time	Dark	Silent	Silent
Normal (standby)	Dark	Dark	Silent	Silent
Smoke Alarm	Blinks Red every second	Blinks Red	Temporal 3 pattern	"Warning smoke evacuate"
Heat Alarm	Blinks Red every second	Blinks Red	Temporal 3 pattern	"Warning smoke evacuate"
Smoke or Heat Alarm Silence	Blinks Red every 8 seconds	Blinks Red every 8 seconds	Silent	"Smoke alarm hush for 5 minutes"
CO Alarm	Blinks Red every 10 seconds	Blinks Blue every 10 seconds	Temporal 4 pattern	"Warning carbon monoxide move to fresh air"
CO Alarm Silence	Blinks Red every 8 seconds	Blinks Blue every 8 seconds	Silent	"CO alarm hush for 5 minutes"
Freeze Warning (low temperature)	Blinks Red every 8 seconds	Dark	Silent	Silent
Low Battery ³	Blink Amber every 45 seconds	Dark	Chirps every 45 seconds after 7 days	"Replace Batteries" instruction when either test button is pressed.
Low Battery Mute	Blink Amber every 45 seconds	Dark	Silent for 12 Hours	Silent
Powered Down	Dark	Dark	Silent	Silent
Tamper	Dark	Dark	Silent	Silent
Smoke Alarm Test ^{1ab}	Blink Red during alarm	Dark	Temporal 3 pattern (two times)	Test mode announcement
Functional SMOKE Test – Waiting for canned smoke entry ²	Blink Green once every second	Dark	Silent	Voice instructions and warning of alarm signal
Functional SMOKE Test - Successful smoke entry	Blink Red every 10 seconds	Blink Red	Temporal 3 pattern	Voice smoke warning
CO Alarm Test ^{1ab}	Blink Red every second during alarm	Dark	Temporal 4 pattern (two times)	Test mode announcement
Functional CO Test – Waiting for gas entry ²	Blinks green once every second	Dark	Silent	Voice instructions and warning of alarm signal
Functional CO Test – Successful gas entry	Blinks Red every 10 seconds	Blinks Blue every 10 seconds	Temporal 4 pattern	"Warning carbon monoxide move to fresh air"
Smoke Maintenance ⁴	Blink Amber every 4 seconds	Dark	Silent	Voice smoke maintenance instructions when Smoke test button is pressed
CO Trouble	Double Blinks Amber every 4 seconds	Dark	Double chirps every 45 seconds	Voice CO sensor failure (If CO test button is pressed)
Heat Sensor Fault (Open Thermistor)	Blinks Red every 8 seconds	Dark	Silent	Silent
Heat Sensor Fault (Shorted Thermistor)	Blinks Red every 8 seconds	Blinks Red	Temporal 3 pattern	"Warning smoke evacuate"
CO End of Life-First 29 days ⁵	Double Blinks Amber every 4 seconds	Dark	Silent	Voice end of life instructions when either test button is pressed)
CO End of Life-After 30 days ⁵	Double Blinks Amber every 4 seconds	Dark	Chirps every 45 seconds	Voice end of life instructions when either test button is pressed)

- 1a Test activated by pressing and releasing (1-2 Secs) the test switch; Detector is functioning properly (within proper sensitivity).
- 1b If Test mode is activated and the LED and Sounder do not function, check for maintenance or trouble conditions.
- 2 See *FUNCTIONAL TESTS* section of this manual for Functional Test activation and procedure.
- 3 Replacement of all four batteries is required.
- 4 See *MAINTENANCE*. If maintenance trouble condition persists, the detector may need to be replaced.
- 5 Starts chirping after 30 days, continues until the batteries are replaced or expire.

ENROLLMENT

The detector must be enrolled in the control panel before it can operate in the system. The Smoke and Carbon Monoxide (CO) sensors each have unique serial numbers that are enrolled in separate zones. Refer to the Security System Control Panel's Installation Guide for the types of Contact ID (CID) events reported to the Central Station.

Enroll the Smoke Sensor

- Enter the control's Zone Programming mode.
- Remove the 5800CMBOV from the base plate (tamper switch must be faulted when enrolling)
- Assign a zone number for the smoke detector zone.
Loop = 1; Zone Type = "Fire No Verification" or "Fire with verification" (VISTA Series = ZT 09 or 16); Input Type ="Supervised" or "RF Supervised" (VISTA Series = "03" (Supervised RF).
When prompted for the serial number, press and release the SMOKE TEST/HUSH (*) button for 1 second. The sensor sends a single fault/restore transmission for enrollment. Alternatively, you can manually enter the smoke sensor serial number found on the unit's label.
- If Maintenance monitoring is desired:

VISTA-15P/20P/21iP, LYNX Touch, & Lyric:

Assign a separate zone number using the Smoke Detector serial number. Loop = 2; (maintenance); Zone Type = (24-Hr.) "Trouble", "Monitor" or "24-hour Auxiliary Alarm" zone (VISTA Series = ZT 19 or 08); Input Type = "Supervised" or "RF Supervised" (VISTA Series = "03" Supervised RF)

NOTE: For VISTA-32/128/250 Series controls: If the Smart Contact feature is enabled, the 5800CMBOV Maintenance feature will automatically be enabled. If Smart Contact is not enabled, Loop 2 must be programmed to enable the Maintenance feature.

5. If Low Temperature monitoring is desired, program a separate zone for the smoke detector serial number.
Loop = 3; Zone Type = (24-Hr.) "Trouble", "Monitor" or "24-hour Auxiliary Alarm" zone (VISTA Series = ZT 19 or 08); Input Type = "Supervised" or "RF Supervised" (VISTA Series = "03" Supervised RF).

WARNING: The fire protection zone must always be enrolled as Loop 1. Otherwise, fire alarms will not be reported by the control.

Enroll the CO Sensor

1. Remove the detector from the base plate.
With the control panel in Zone Programming mode, assign a zone number for the CO detector zone. Program the following:
Loop = 1 ; Zone Type = "Carbon Monoxide" or "24-hour CO" (VISTA Series = ZT 14); Input Type = "Supervised" or "RF Supervised" (VISTA Series = "03" Supervised RF)
2. When prompted for the serial number, press and release the CO TEST/HUSH (**) button for 1 second. The sensor sends a single fault/restore transmission for enrollment. Alternatively, you can manually enter the CO sensor serial number, which is the smoke serial number plus 1 (ex. if smoke s/n is 0000781, the CO s/n is 0000782).
3. If End-of-Life monitoring is desired:
VISTA-15P/20P/21iP, LYNX Touch, Lyric and ProSeries: automatically sent
VISTA-128/250 Series: program a separate zone for the CO serial number. Loop = 2; Zone Type = enter zone type ZT 19 or 08 (24-Hr. Trouble or Auxiliary Alarm); Input Type = 03 (Supervised RF).
4. Exit Programming mode when programming is complete and test the detector. Refer to the *TESTING THE DETECTOR* section of this manual.

Refer to the Control Panel's installation instructions for additional information.

TO SILENCE THE DETECTOR

Press the TEST switch. The detector sounds again after 5 minutes if the alarm condition continues.

Note: The detector cannot be silenced if the the smoke concentration exceeds 4ft% or the CO concentration exceeds 350ppm.

MOUNTING THE DETECTOR

First, determine the best location for the detector, one that provides proper carbon monoxide detection and a strong wireless transmission path. Refer to Figure 4 for suggested detector locations.

Proper Detector Location

In a wall location, the detector should be at least as high as a light switch, and at least 6 inches (15.24cm) from the ceiling. In a ceiling location, the detector should be at least 12 inches (30.48cm) from any wall. (Refer to Figure 3)

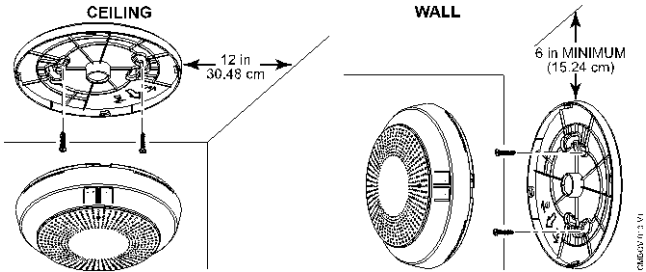


Figure 3. Mounting the 5800CMBOV

DO NOT attach the detector to removable ceiling panels. Attach the detector across panel support as shown in Figure 4

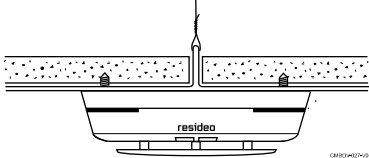


Figure 4. Mounting Detector Across Ceiling Panel Support

Where to install, ideally:

- Within 10 feet (3m) of all sleeping areas
- Inside the bedroom if it contains a fuel burning appliance
- On every floor of the building
- Ideally, install in any room that contains a fuel burning appliance
- If the appliance in the room is not normally used, such as the boiler room, the detector should be placed just outside the room so the alarm can be heard more easily

Where NOT to install, ideally:

- Detectors operate best when installed 10 feet (3m) or further from any cooking appliance
- Directly above a sink, cooker, stove or oven
- Next to a door or window affected by drafts (i.e.; extractor fan or air vent)
- Outside
- Do not install in any environment that does not comply with the detector's environmental specifications
- In or below a cupboard
- Where air flow would be obstructed by curtains or furniture
- Where dirt or dust could collect and block the sensor
- Where it could be knocked, damaged, or inadvertently removed

NOTE: NFPA 72 recommends the installation of detectors only after completing construction or any other dust producing activity.

Good transmission path

A good transmission path must be established from the proposed mounting location before permanently installing the detector. Perform the test described in the *TESTING SIGNAL STRENGTH* section of this manual. Prior to mounting the detector to the mounting base, you must "enroll" the detector's serial number into the system.

Mounting Procedure

Once a suitable location is found, mount the detector as follows:

1. Refer to Figure 3 and install the mounting base on the ceiling or on the wall (if local ordinances permit). Use the two screws and anchors provided. Rotate the base so the screws are at the elbow of the screw slots and secure.
2. Fit the detector inside the base by aligning it over the base, then turn the detector in a clockwise direction until it clicks into place.
3. Test the detector after completing the installation (as described in the *TESTING THE DETECTOR* section of this manual). Refer to the control system's instructions for additional information concerning the use of wireless devices.

CAUTION

Airborne dust particles can enter the detector. Resideo recommends the removal of detectors before beginning construction or any other dust-producing activity. Carbon monoxide detectors are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

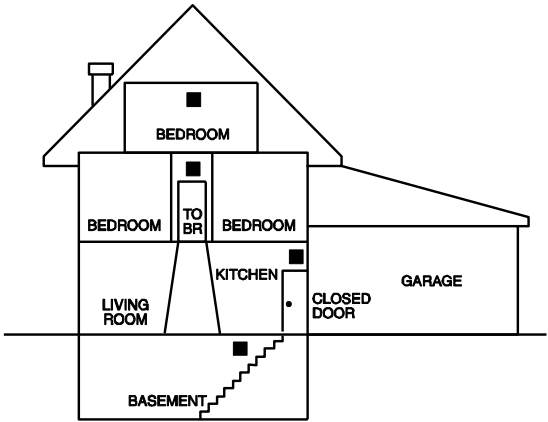


Figure 5. Detector Location Diagram

TESTING THE DETECTOR

Test communications between the detector and the control panel. The detector feature two separate test buttons for smoke testing and CO testing.

The detector may also be functionally tested using canned smoke and canned CO. If the detector fails any test method, it should be replaced.

NOTE: Testing the detector will activate the alarm and send a signal to the panel. **Before testing, notify the proper authorities to avoid any false alarms.**

Alarm Test

1. Press and hold the SMOKE TEST/HUSH (*) button for 1 to 2 seconds. The detector will sound and illuminate as noted in Table 2 and send a smoke alarm signal to the control panel (all programmed smoke detector loops are signaled). Verify that the smoke alarm signal was received at the control panel.
2. Press and hold the CO TEST/HUSH (**) button for 1 to 2 seconds. The control panel should display and sound a CO alarm (all programmed CO detector loops are sent).

Functional Tests

The 5800CMBOV detector must be functionally tested after installation. to verify the detector's ability to sense carbon monoxide gas and smoke.

Functional Gas Test - To perform the functional gas test:

1. Depress and hold the CO TEST/HUSH (**) button for approximately 3-5 full seconds. Refer to Figure 5.
2. Within a few secs, the Status LED will blink green once each second, indicating the detector is in functional test mode. At this time, the unit is waiting for the user to dispense the test CO sample.
3. Spray a very small amount of Solo™ C6 canned CO directly into the gas test hole (Refer to Figure 6). Solo™ C6 is available through many security equipment vendors.
4. Upon successful gas entry and if functioning properly, the detector will begin sounding in a temporal 4 pattern. The Status LED will blink red and the Side LED window will blink Blue every 10 seconds. An alarm signal is sent to the panel, providing verification of the alarm signal.
5. The alarm condition at the detector will stop when the CO gas has cleared.
6. If gas entry is unsuccessful, the test will automatically end after 20 seconds.

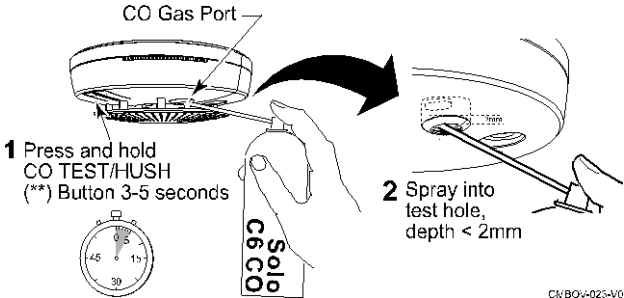


Figure 6. 5800CMBOV CO Functional Test

Functional Smoke Test - To perform the functional Smoke test:

1. Depress and hold the SMOKE TEST/HUSH (*) button for approximately 3-5 full seconds. Refer to Figure 6.
2. Within a few secs, the Status LED will blink green once each second, indicating the detector is in functional test mode. At this time, the unit is waiting for the user to dispense the test Smoke sample.
3. Spray a very small amount of canned Smoke directly into the 5800CMBOV (Refer to Figure 7).

CANNED SMOKE NOTE: Detector sounds an alarm when using canned smoke **only** when in Functional Test mode (canned smoke does not cause alarm sounding when in normal mode). The SDi SOLOA10 canned smoke can be used and is approved for test.

4. Upon successful smoke entry and if functioning properly, the detector will begin sounding in a temporal 3 pattern. The Status LED will blink red every 10 seconds and the Side LED window will blink red. An alarm signal is sent to the panel, providing verification of the alarm signal.
5. The alarm condition at the detector will stop when the smoke has cleared.
6. If smoke entry is unsuccessful, the test will automatically end after 20 seconds.

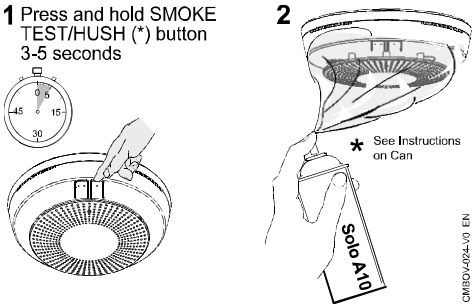


Figure 7. 5800CMBOV Smoke Functional Test

TESTING SIGNAL STRENGTH

NOTE: Remove battery tab before installation. (Refer to figure 2). This test should be performed before installation to determine a strong communication path with the control panel. The test should be repeated after installation is complete. Also, the owner/user should test the unit's signal strength at least weekly.

1. Activate the wireless system's GO/NO GO TEST mode from the keypad (refer to the control panel's instruction manual).
2. Depress the detector's SMOKE TEST/HUSH (*) button for 1-2 seconds. If the detector has not previously sensed a low battery condition and is operating within proper sensitivity limits, it will enter Smoke Test mode and then transmit an alarm signal to the control panel. The built-in sounder will start to sound following the announcement.
3. The wireless system's keypad should emit at least 3 tones when the alarm transmission is received and will display the transmitting detector's zone number.
4. The sounder will stop and a few seconds later the detector's zone number will clear from the console display.
5. If the console does not respond as described above:
 - a. Make sure the batteries are installed with the correct polarity.
 - b. Make sure the batteries are fresh.
 - c. If this is an initial installation, try moving the detector to another location that provides proper reception. Also be sure that the detector has been "enrolled" by the control panel (refer to the ENROLLMENT section of this manual). Then, repeat the signal strength test.
6. Exit TEST mode from the keypad (security code + OFF).

TESTING PROGRAMMED LOOPS

This test should be performed before installation to ensure that the detector has been programmed and is operational in the system.

1. Activate the system's Go/No Go mode from the keypad (see the control panel's instruction manual). All programmed wireless zones will be displayed, one by one, on the system keypad. Make sure the detector zone is displayed in the sequence. (If not, recheck that the detector zone has been properly programmed.)
2. With the detector mounted to the mounting base, press the detector's SMOKE TEST/HUSH (*) button for 1-2 seconds. The detector will enter Smoke Test mode and then transmit an alarm signal to the control panel. The built-in sounder will start to sound following the announcement.
3. The wireless system's keypad should emit at least three tones when the alarm transmission is received and display the transmitting detector's zone number.
4. When the console has received the test signal, the sounder will stop and a few seconds later the zone associated with the detector should disappear from the keypad on the next display cycle. This means that the system has received a transmission from the detector zone you have programmed.
5. If the console does not respond as described above and if this is an initial installation, try moving the detector to another location that provides proper reception. Also be sure that the detector has been "enrolled" by the control panel (refer to the ENROLLMENT section of this manual). Then, repeat the test.
6. When testing is complete, enter the Installer code + the OFF key to exit TEST mode.

When all system testing has been completed, notify the Central Station that the system is back online.

Hush feature: If necessary, the audible alarm can be silenced for 5 minutes by pushing the SMOKE TEST/HUSH (*) or CO TEST/HUSH (**) button. The LED will continue to flash as noted in Table 1. If carbon monoxide or smoke is still present after the 5-minute hush period, the audible alarm will sound. The Hush feature will not operate at carbon

monoxide levels above 350 ppm (parts per million) or smoke conditions above 4%/ft concentration.

In addition, low battery chirping can be silenced for 12 hours when the SMOKE TEST/HUSH (*) or CO TEST/HUSH (**) button is pressed.

Trouble feature: When the sensor supervision is in a trouble condition, the detector will send a trouble signal to the panel. The Status LED blinks Amber two times every 4 seconds and the sounder will chirp every 45 seconds. Trouble conditions include an open circuit, sensor removal (tamper), and sensor end of life.

End of Life Timer feature: This detector's lifespan is approximately ten years from its date of manufacture. When the detector has reached the end of its life, the detector will send a trouble signal to the panel. This indicates that the CO sensor inside the detector has passed the end of its life and the detector must be replaced. The Status LED blinks Amber two times every 4 seconds and the sounder will be silent. If 30 days have passed, the Status LED will continue to blink Amber two times every 4 seconds and the sounder will chirp every 45 seconds. Refer to *DETECTOR REPLACEMENT* section of this manual.

Low Battery Detection: The 5800CMBOV is powered by four 3-volt CR123A Lithium battery (included). The detector checks for a low battery at least every 65 minutes. If a low battery is detected, the transmitter sends a low battery message to the control panel, which beeps and displays the detector's zone number. In addition, the detector's Status LED will blink Amber every 45 seconds. After 7 days, the detector's sounder will "chirp" about every 45 seconds and the Status LED will continue to blink Amber every 45 seconds for up to 30 days. Pressing either the SMOKE TEST/HUSH (*) or CO TEST/HUSH (**) button during this time will silence the chirps for 12 hours, if no other trouble conditions exist. All four batteries should be replaced BEFORE the chirps begin. Be sure to replace all four batteries with fresh ones.

Tamper Protection: The 5800CMBOV has a built-in tamper switch that will cause a signal to be displayed at the alarm system console and an alarm will sound if it is removed from its mounting base.

BATTERY REPLACEMENT

CAUTION: The batteries used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 212°F (100°C) or dispose of in fire. Use only Panasonic CR123A Lithium batteries. Use of other batteries may present a risk of fire or explosion. Keep used batteries away from children. Dispose of used batteries properly.

1. Remove the detector from its mounting base by twisting the detector counterclockwise. Remove all four batteries and dispose of them properly.
 2. Wait a minimum of 10 secs and then install four new 3-volt CR123A Lithium batteries in the battery compartment.
- NOTE:** Follow the polarity diagram inside the battery compartment.
3. Reinstall the detector onto its mounting base by turning the detector clockwise. To avoid a low battery indication when installing new batteries, all 4 batteries must be installed within 15 seconds of installing the first one. Any low battery condition that may have occurred should clear when the base plate is installed
 4. Test the detector as described in the *TESTING SIGNAL STRENGTH* section of this manual. If the batteries are not installed correctly, the detector will not operate, and the batteries may be damaged. If the detector does not appear to be sending a signal during any of the tests, check for correct battery installation and for fully charged batteries.

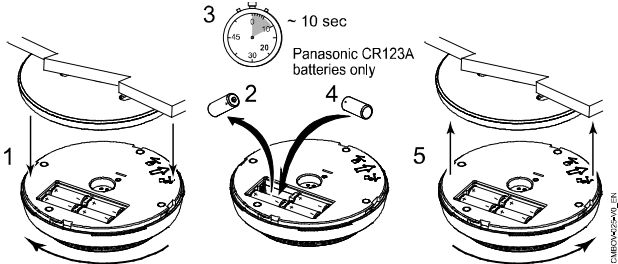


Figure 8. Battery Replacement

RESETTING THE LANGUAGE

1. Press and hold both the Smoke (•) and CO (••) Test buttons simultaneously for 5 seconds until language message is announced, then release. The green LED blinks every 2 seconds until a language is selected.
2. Press the Test button corresponding to the desired language within 40 seconds.

English: Smoke (•) test button
Spanish: CO (••) test button

NOTE: The language defaults to English if a language is not selected within 40 seconds.

MAINTENANCE

NOTE: Notify the Central Station the system will be temporarily out of service.

IMPORTANT: This detector must be tested and maintained regularly following NFPA 72 requirements.

Occasionally clean the outside casing with a cloth. Ensure that the holes on the front of the alarm are not blocked with dirt and dust. **Do not paint or use cleaning agents, bleach, or polish on the detector.** The detector should be cleaned at least once a year.

1. Remove the detector from the base plate by turning counterclockwise.
2. Clean the outside casing with a cloth. Ensure that the holes on the front of the alarm are not blocked with dirt and dust. Canned air can be used to remove any dust or debris.
3. Reattach the detector to the base plate by rotating clockwise.
4. Test the detector to insure it is fully functional. (See *TESTING THE DETECTOR* section of this manual).
5. Notify the Central Station when the system is back in service.

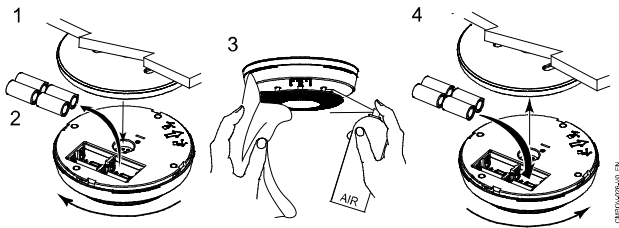


Figure 7. Cleaning the 5800CMBOV

NOTE: Before performing any maintenance on the detector, notify the Central Station that maintenance is being performed and the system will be temporarily out of service. Disable the zone or system undergoing maintenance to prevent any unwanted alarms. Power must be removed from the detector before performing maintenance of any kind.

The 5800CMBOV detector reports maintenance issues to the control panel and communicates them visually and audibly per Table 1.
Trouble feature: When the sensor (supervision) is in a trouble condition (such as a detector that is dirty or CO sensor non-functioning), the detector will send a trouble signal to the control panel. Depending on the issue, the detector must then be serviced or replaced.
NOTE: Smoke detectors are not to be used with detector guards unless the combination is evaluated and found suitable for that purpose.
CAUTION:

This combination smoke and carbon monoxide detector is designed for indoor use only. Do not expose it to rain or moisture. Do not drop the detector or subject it to other physical shock. Do not open or tamper with the detector as this may cause it to malfunction. The detector will not protect against the risk of carbon monoxide poisoning if not properly installed.
NOTE: The detector will only indicate the presence of carbon monoxide gas in the vicinity of the detector itself. **Carbon monoxide gas may be present in other areas.**

- THIS DETECTOR IS NOT:**
- A substitute for the proper servicing of fuel-burning appliances or the sweeping of chimneys
 - To be used on an intermittent basis, or as a portable alarm for the spillage of combustion products from fuel-burning appliances or chimneys

Carbon monoxide gas is a highly poisonous gas which is released when fuels are burned. It is invisible, has no smell and is therefore impossible to detect with the human senses. Under normal conditions in a room where fuel burning appliances are well maintained and correctly ventilated, the amount of carbon monoxide released into the room by such appliances should not be dangerous.

- SYMPTOMS OF CARBON MONOXIDE POISONING:** Carbon monoxide bonds to the hemoglobin in the blood and reduces the amount of oxygen being circulated in the body. The following symptoms are related to carbon monoxide poisoning and should be discussed with all members of the household:
- Mild exposure: Slight headache, nausea, vomiting, fatigue (often described as “flu-like” symptoms).
 - Medium exposure: Sever throbbing headache, drowsiness, confusion, fast heart rate.
 - Extreme exposure: Unconsciousness, convulsions, cardio respiratory failure, death.

Many causes of reported carbon monoxide poisoning indicate that while victims are aware that they are not well, they become so disoriented that they are unable to save themselves by either exiting the building or calling for assistance.
Also, young children and pets may be the first to be affected.

! WARNING: IMPORTANT INFORMATION FOR THE USER

Actuation of your CO alarm indicates the presence of carbon monoxide (CO), which can cause injury or death.
Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30ppm.

FOR SUPPORT & WARRANTY INFORMATION AND FOR DETAILS REGARDING THE LIMITATIONS OF THE ENTIRE ALARM SYSTEM, GO TO:
<https://www.resideo.com>

The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.
Any attempt to reverse-engineer this device by decoding proprietary protocols, de-compiling firmware, or any similar actions is strictly prohibited

- What to do if the carbon monoxide detector goes into alarm:**
1. Push either the SMOKE TEST/HUSH (*) or CO TEST/HUSH (**) button. If the detector reactivates or the detector does not silence, continue with Step 2.
 2. Immediately move to fresh air, outdoors or by an open window. Check that all persons are accounted for. Do not reenter the premises nor move away from the open door/window until emergency service responders have arrived.
 3. Call your local fire department from a phone in an area where the air is safe.
 4. If your detector reactivates within a 24-hour period, repeat steps 1 - 3 and call a qualified appliance technician to investigate possible sources of CO from fuel burning equipment and appliances, and check for proper operation of this equipment. If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturer’s instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not been, operating in an attached garage or adjacent to the residence.

IMPORTANT: This detector should be tested and maintained regularly following National Fire Protection Association (NFPA) 72 requirements. (Generally, this detector should be fully tested at least once per month.)

DETECTOR REPLACEMENT

This detector is manufactured with a long-life carbon monoxide sensor. Over time the sensor will lose sensitivity and will need to be replaced with a new carbon monoxide detector. This detector’s lifespan is approximately ten years from the date of manufacture.
The user should periodically check the detector’s replacement date. Remove the detector from its base and check the replacement date label on the underside of the detector. The label indicates the date that the detector should be replaced.
NOTE: When the detector is removed from its base, a message is sent to the central station. If the system is armed, a tamper alarm message is sent; if disarmed, a trouble message is sent.

The detector will also indicate a trouble condition when it has reached the end of its useful life. If this occurs, it is time to replace the detector.
NOTE: Before replacing the detector, notify your central station that maintenance is being performed and the system will be temporarily out of service. Disable the zone or system undergoing maintenance to prevent any unwanted alarms. Dispose of detector in accordance with any local regulations.

Please see insert for Limitations of Carbon Monoxide Detectors.

This device complies with Part 15 of the FCC Rules, and ISED’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.
Unauthorized changes or modifications could void the user’s authority to operate the equipment.

SPECIFICATIONS

- Power Source:** Four 3-volt CR123A Lithium Battery (included).
(Replace only with Panasonic CR123A)
Audible Signal: 85 dBA minimum in alarm at 10ft (3m)
Height: 1.99 inches (50 mm)
Diameter: 6.2 inches (157 mm) with mounting base
Weight: 14.3 oz. (406 g) without battery
Operating Ambient Temperature Range: 32° to 100°F (0° to 38°C)
Relative Humidity: 95% RH max. non-condensing
Agency Listings: UL standard 268 and 2075

This product is manufactured by Resideo Technologies, Inc. and its affiliates

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