

Installation and Setup Guide

GENERAL INFORMATION

The 5800COV is a 3V battery-powered wireless Carbon Monoxide (CO) detector intended for use with wireless alarm systems that support 5800 series devices. Consult your control panel's installation instructions for compatibility.

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.

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

- Conforms to UL standard 2075
- CO sensitivity is evaluated to UL 2034
- Certified to CSA Standard 6.19-17
- 10-year life Carbon Monoxide (CO) sensor
- CO Detector End-of-Life reporting (detector needs replacing)
- Low Battery Detection
- Supervised
- Local sounder
- Dual LEDs
- CO Test/Hush button
- Functional Gas Test

Refer to the Limitations of Carbon Monoxide Detectors (P/N K14670V1).

The 5800COV's carbon monoxide alarming circuit is designed to detect carbon monoxide gas from ANY source of combustion. The carbon monoxide alarming circuit of this device is NOT designed to detect smoke, fire, or any other gases.

The 5800COV contains a piezoelectric horn which generates the ANSI S3.41 temporal 4 pattern in an alarm condition (see note below Table 1 for a description of the temporal 4 pattern). In alarm, a message is also sent to the control panel and the detector's zone number is displayed at the console. The alarm message is transmitted every 4 secs until the carbon monoxide condition has cleared and the detector has reset. During an alarm condition, pressing the detector's CO Test/Hush button will silence the piezoelectric horn for 5 minutes if level drops below 350ppm. Once the detector has reset, a RESTORE message is transmitted to the control panel and the transmitter's zone number can be cleared from the panel.

LED Indicators

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

Top multi-color Status LED:

Green = Blinks during power on, and during CO Functional testing
 Amber = Signal maintenance and trouble events
 Red = CO Alarm condition

Side LED windows (4) indicate alarms:

Blue = CO alarm

Refer to Table 1 for additional LED information.

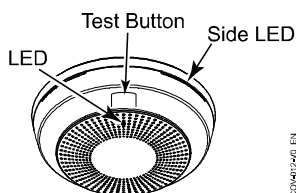


Figure 1. 5800COV Wireless Carbon Monoxide Detector

Table 1: Detector LED Modes

Mode	Status LED (Top)	Side LEDs (Window)	Sounder
Power Up	Blinks green one time	Dark	Silent
Normal (standby)	---	Dark	Silent
CO Alarm	Blinks red every 10 seconds	Blinks blue every 10 seconds	Temporal 4 pattern ¹
CO Alarm Silence	Blinks red every 8 seconds	Blinks blue every 8 seconds	Silent
Low Battery ²	Blinks amber every 45 seconds	Dark	Chirps every 45 seconds after 7 days
Low Battery Mute	Blinks amber every 45 seconds	Dark	Silent for 12 Hours
Tamper	Dark	Dark	Silent
Low Battery (30 days later)	Dark	Dark	Silent
CO Alarm Test ³	Blinks red during alarm	Dark	Temporal 4 pattern (two times)
Functional Gas Test ⁴ – Waiting for gas entry	Blinks green once every second	Dark	Silent
Functional Gas Test – Successful gas entry	Blinks red every 10 seconds	Blinks blue every 10 seconds	Temporal 4 pattern ¹
CO Trouble	Double-blinks amber every 4 seconds	Dark	Double-chirps every 45 seconds
CO End of Life- First 29 days ⁴	Double-blinks amber every 4 seconds	Dark	Silent
CO End of Life- After 30 days ⁴	Double-blinks amber every 4 seconds	Dark	Chirps every 45 seconds

¹ Temporal 4 pattern is a repeated series of 4 short beeps followed by a 5 sec pause. If ambient conditions return to normal, the CO detector will switch from Alarm mode to its previous mode.

² If the detector goes into alarm prior to the 7-day delay expiration, the LED blink will match the alarm condition. Upon exiting the alarm, the 7-day delay is bypassed, and the sounder will begin the chirp every 45 seconds.

³ Test activated by pressing (1-2 seconds) and releasing the CO TEST/HUSH button; detector is functioning properly (within proper sensitivity). **Note:** If Test mode is activated and the LED and Sounder do not function, check for maintenance or trouble conditions.

⁴ Starts chirping after 30 days, continues until the battery dies.

⁵ See Functional Test section for Functional Test activation and procedure.

Hush feature: If necessary, the audible alarm can be silenced for 5 minutes by pushing the CO Test/Hush button. The LED will continue to flash red every 8 seconds and the side LED windows will flash Blue every 8 seconds. If carbon monoxide is still present after the 5-minute hush period, the audible alarm will sound. The Hush feature will not operate at levels above 350 ppm (parts per million) carbon monoxide.

Trouble feature: When the sensor supervision is in a trouble condition, the detector will send a trouble signal to the panel. The Status LED and sounder will respond as noted in Table 1. 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 5800COV is powered by a single 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 the CO Test/Hush button during this time will silence the chirps for 12 hours, if no other trouble conditions exist. The battery should be replaced BEFORE the chirps begin. Be sure to replace the battery with a fresh one.

Tamper Protection: The 5800COV 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.

POWER UP AND ENROLLMENT

1. Remove the detector from its mounting base by twisting the detector counterclockwise. (Refer to Figure 2)
2. Remove battery pull tab. Be sure battery is seated properly to avoid a low battery condition after 15 seconds.
3. During initial power-up, the LED will blink green one time and the sounder will remain silent. It takes about 30 secs for the detector's CO sensor to stabilize.
4. After power-up has completed and the detector is functioning normally, the LEDs will remain dark and the sounder will be silent.

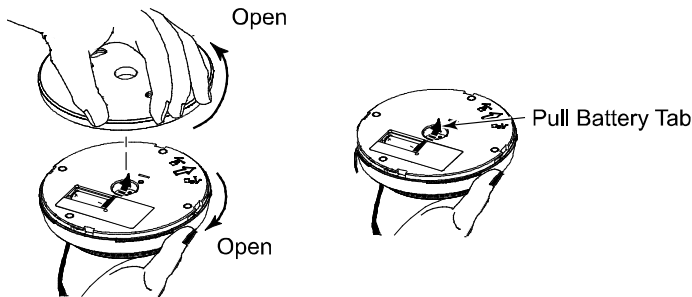


Figure 2. Powering up the 5800COV

ENROLLMENT

The detector must be enrolled in the control panel before it can operate in the system. Alarms and trouble conditions from the detector are reported on one protection zone, which is programmed as "Carbon Monoxide" OR "24-hour CO" zone type (VISTA Series = ZT 14). Refer to the Security System Control Panel's Installation Guide for the types of Contact ID (CID) events reported to the Central Station.

1. Enter the control's Zone Programming mode.
2. Enter the alarm zone number to be programmed.
3. Enter the applicable zone type when prompted. Use zone type 14 for Resideo residential controls.
4. When prompted, select input type – "Supervised" or "RF Supervised" (VISTA Series = 03 Supervised RF).
5. When prompted for the serial number:
 - a. Remove the detector from its base (rotate the detector counterclockwise on the base until it snaps open).

NOTE: Detector must be removed from its base to enroll.

- b. Press the detector's CO Test/Hush button twice (for each press, hold the button down for several seconds).
 - c. Reinstall the detector onto its base (twist the detector clockwise until it snaps into place).
 - d. Check that the detector is enrolled as Loop 1.
6. If End-of-Life monitoring is desired:

VISTA-15P/20P, LYNX Touch, Lyric and ProSeries – automatically enrolled.

VISTA-32, 128/250 Series – program a separate zone for the CO serial number.

 - a. Loop 2 = Zone Type (Choose a zone type based on the desired operation i.e., "24-hour Trouble" or "24-hour Auxiliary Alarm" (VISTA Series = ZT 19 or 08).
 - b. Input Type - "Supervised" or "RF Supervised" (VISTA Series = 03 Supervised RF).
 7. Exit Programming mode when programming is complete and test the detector. Refer to the Testing Section of this manual.

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

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 5 for suggested detector locations.

Proper Carbon Monoxide Detection Location

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

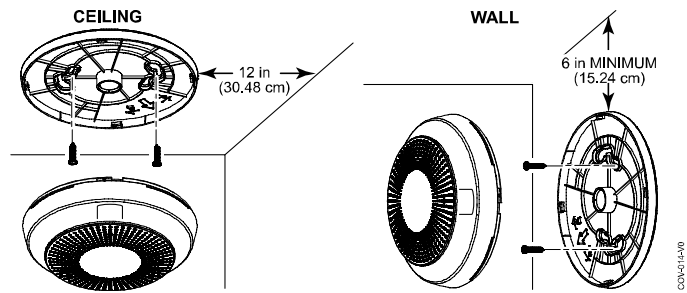


Figure 3. Mounting the 5800COV

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

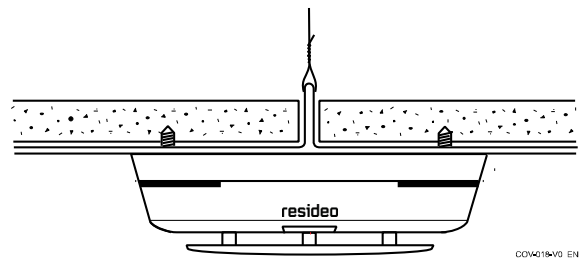


Figure 4. Mounting Detector Across Ceiling Panel Support

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

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.

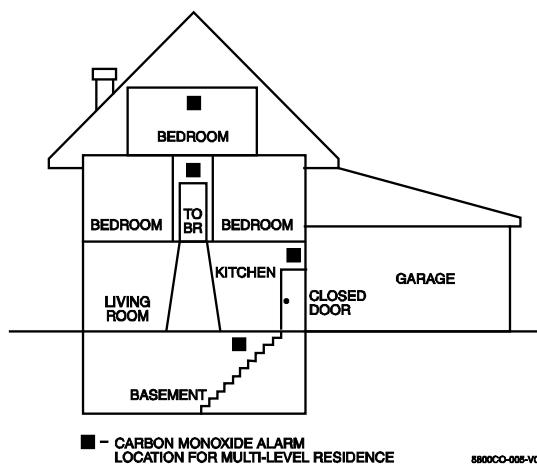


Figure 5. CO Detector Location Diagram

TESTING THE DETECTOR

NOTE: The 5800COV detector must be functionally tested after installation. The 5800COV features a *Functional Gas Test* mode that can be used to verify the detector's ability to sense carbon monoxide gas. To perform the functional gas test:

1. Depress and hold the CO 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 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.

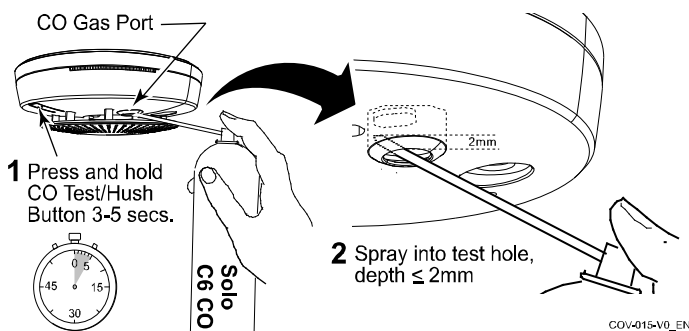


Figure 6. CO Detector Functional Test

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 CO TEST/HUSH button. If the detector has not previously sensed a low battery condition and is operating within proper sensitivity limits, it should immediately transmit an alarm signal to the control panel. The built-in horn will start to sound after pressing the button.
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. When the control panel has received the test signal, release the CO TEST/HUSH button. The horn 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 battery is installed with the correct polarity.
 - b. Make sure the battery is 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). 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 TRANSMITTER ID SNIFFER 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 TEST/HUSH button. 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.
3. 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 monitoring station that the system is back online.

BATTERY REPLACEMENT

1. Remove the detector from its mounting base by twisting the detector counterclockwise. Remove the battery and dispose of properly.
 2. Wait 10 seconds and then install a new 3-volt CR123A Lithium battery 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.
 4. Test the detector as described in the TESTING SIGNAL STRENGTH section of this manual. If the battery is not installed correctly, the detector will not operate and the battery 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 a fully charged battery.

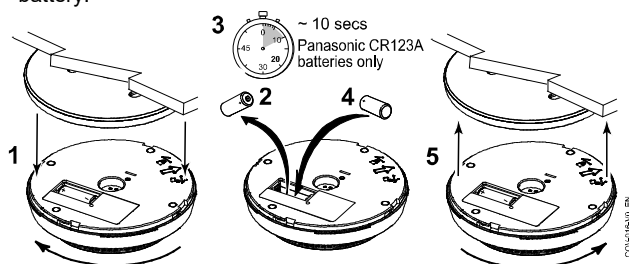


Figure 7. Battery Replacement

MAINTENANCE

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.**

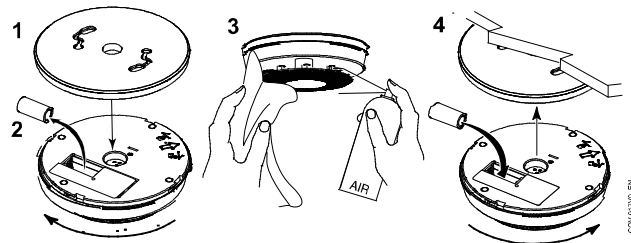


Figure 8. Cleaning the 5800COV

CAUTION: CARBON MONOXIDE GAS AND ITS DETECTION

This 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 CARBON MONOXIDE DETECTOR IS NOT:

- Designed to detect smoke, fire or any gas other than carbon monoxide
- 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: Severe 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.

What to do if the carbon monoxide detector goes into alarm:

1. Push the 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.

CAUTION

It should be noted that installation, operation, testing and maintenance of the 5800COV is different than smoke detectors. Per NFPA 72 the detector shall not be connected to a zone that signals a fire condition (i.e. smoke detector zones). Therefore, the 5800COV detector must be programmed as a non-fire zone. See the control panel's Installation Instructions for the appropriate carbon monoxide zone type to be programmed.

Please see insert for Limitations of Carbon Monoxide Detectors.

This device complies with Part 15 of the FCC Rules, and ISSED'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: One 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 maximum, non-condensing

Agency Listings: UL standard 2075,

..... Certified to CSA STD 6.19-17

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

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

resideo



R800-26839A 9/22 Rev. A

2 Corporate Center Drive, Suite 100
P.O. Box 9040, Melville, NY 11747
© 2022 Resideo Technologies, Inc. Inc.
www.resideo.com