Honeywell

Model: 5800COMBO with voice and 360 degree viewable LED ring
Combination Smoke/Carbon Monoxide (CO) Detector with Built-in Wireless Transmitter

INSTALLATION AND SETUP GUIDE

This is intended for use with Honeywell control panels that support 5800 series devices.

Install

- Remove Battery Pull tabs to activate device and begin enrollment.
- The detector will run through its Power-Up mode: Green LED Blinks every 2 secs / Sounder is Silent. The detector will prompt for language selection.

Important Note: CO and SMOKE each have unique serial numbers and must to be enrolled separately.

(∘∘) CO Test   (∘) Smoke Test
LED

5800combo-ii 001
5800COMBO

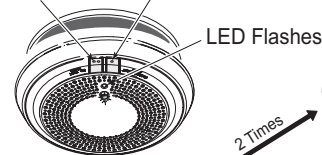**Open**
Top
Pull Battery Tab
Open
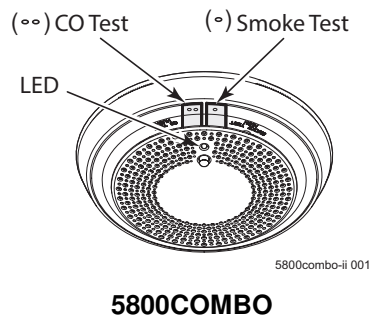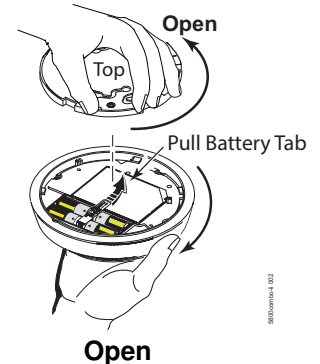
Enroll

1. Press the Smoke (•) test button to select English or the CO (••) test button to select Spanish language settings.
2. On the Honeywell compatible control panel, log in Programming Mode > Zones > New > Serial Number.
3. **Enter the zone number to be programmed for <u>Smoke</u>.**
4. Enter 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),
   • 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.

5. When prompted, enter Input Type 03 (3 on some controls) – Supervised RF Transmitter.
6. When prompted for the serial number, activate the sensor (press for 1 sec.) or enter the serial number found on the label located on the unit. The unit will speak, then beep and the serial number will be transmitted to the panel. (This will take approx. 40 secs.) **Repeat this step** to complete enrollment.
7. The current loop number (4) will begin to flash.
8. Manually change the loop number to the desired loop number for the zone, loop (1) is for Heat/Smoke.
9. When programming for the Heat/Smoke Loop 1 zone type is complete, program other zones for the types as necessary in additional zones (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.

10. **Enter the zone number to be programmed for <u>CO</u>.**
11. Enter the applicable zone type. Use zone type 14 for Honeywell residential controls.
12. Enter Input Type 03 (3 on some controls)–Supervised RF Transmitter.
13. When prompted for the serial number, activate the sensor (press for 1 sec.) or enter the serial number found on the label located on the unit. The unit will speak, then beep and the serial number will be transmitted to the panel. (This will take approx. 40 secs.) **Repeat this step** to complete enrollment.
14. Check that the CO detector is enrolled as loop 1.
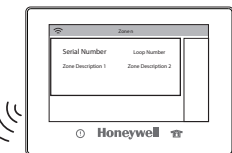15. Exit Programming mode and test the detector. Refer to the Testing Section.

1 Power -Up mode
(∘∘) Spanish French   (∘) English
LED Flashes
2 Times

2 Programming Mode
Zones > New > Serial Numbers.

Serial Number   Loop Number
Zone Description 1   Zone Description 2
Honeywell

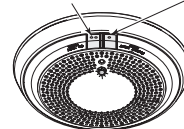Enter the unique Serial number(s) found on the label located on the unit. See Important Note above.

3 Test Press Test button for < 1.5 secs
3a) Test CO or **3b) Test Smoke**

4 Transmission announcment > Beep > Serial # sent to panel (approx. 40 secs)
● **Repeat Step 3.**

5 Save

5800 combo-ii-003

Table 1: Operation Modes

MODE	Status LED (Top)	LED Windows (Side)	Sounder	Speaker
Power Up	Blink Green, every 2 secs	Dark	Silent	Voice welcome, instructions follow POR for language selection, enrollment, testing
Normal (Standby)	Single Blink Green every 10 secs	Dark	Silent	Silent
Smoke Alarm	Blink Red every 10 secs	Blink red	Temp-3	Voice smoke warning
Thermal Alarm	Dark	Blink red	Temp-3	Voice smoke warning
CO Alarm	Blink Red every 10 secs	Blink blue	Temp-4	Voice CO warning
Powered Down	Dark	Dark	Silent	Silent

Visible Annunciation

The 5800COMBO Smoke/CO series detector has a multi-color top LED; Green, Red, Blue and Amber. The LED is green for supervisory indication; it blinks during power on, reset, and during normal operation. The LED is amber to signal maintenance and trouble events. The detector utilizes the side LED windows to indicate alarm events; red for smoke and blue for CO.

Mounting

After enrolling and before mounting permanently, conduct Go/No Go test (see controller's instructions) to verify adequate signal strength. Adjust the device location as necessary.

Physically mount the smoke detector in the desired location;
1. Using two supplied screws and anchors, mount the base.
2. Attach the smoke detector to the mounting base with a clockwise motion.
3. Test each detector as described in the Testing section.
4. Confirm all desired signals have been received by the Central Station.

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

Testing

Test communications between the detector and the control panel. The detector mode has two test buttons; one for smoke testing and one for CO testing.

The detector may also be functionally tested using canned smoke and canned CO. If the detector fails any of the test methods, the detector 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.**

Smoke Test

Press and hold the Smoke Test button for 3 to 5 seconds. The detector will sound and illuminate per Table 2 and send a smoke alarm signal to the control panel.

Verify that the smoke alarm signal was received at the control panel.

To functionally test the smoke sensor see Smoke Entry Test section.

CO Test

Press and hold the CO Test button for 3 to 5 seconds to enter a functional gas test mode. *See Functional Gas Test section.*

The control panel alarm and all auxiliary functions should be verified for a complete test of the system.

Smoke Entry Test

1. With the detector in standby mode, spray canned smoke into the detector. The canned smoke that can be used and is approved for test include: Home Safeguard Industries 25S, SDi CHEK02 and CHEK06, SDi SOLOA4, and SDi SMOKESABRE.
2. The detector will sound and illuminate per Table 2 and a smoke alarm signal will be sent to the panel.
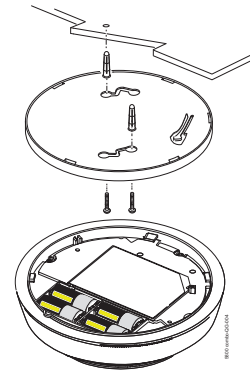3. Verify the smoke alarm signal was received by the control panel.

Smoke Sensitivity Reading

When the Smoke Test button is pressed for 3 to 5 seconds, the detector will vocally annunciate its smoke sensitivity along with diagnostic information.

Replace Battery
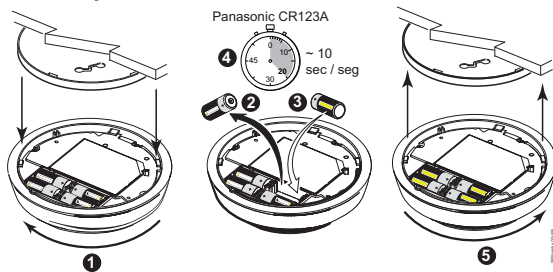
Caution: The batteries used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C (212°F) or dispose of in fire. Use only Panasonic CR123A Lithium batteries. Remove old batteries. Wait 10 seconds and then replace with four new batteries. Use of other batteries may present a risk of fire or explosion. Keep used batteries away from children. Dispose of used batteries properly.

MODE	Status LED (Top)	Side LED Windows	Sounder	Speaker
Smoke Alarm System Test	Dark	Dark	Temp-3	Warning of alarm signal transmission. Voice smoke warning
RealTest™ Functional CO gas entry test - *Waiting for gas entry*	Blink Red once a second	Dark	Silent	Voice instructions for testing; warning of alarm signal
RealTest™ Functional CO gas entry test -*Upon successful gas entry*	Blink Red every 10 secs	Blink blue every 10 secs	Modified Temp-4	Voice carbon monoxide warning
Low Battery	Blink Amber every 10 secs	Dark	Chirp every 45 seconds after 7 days	Voice instructions when chirp is hushed by pressing either test button
Smoke Maintenance	Blink Amber every 5 secs	Dark	Silent	Voice smoke maintenance instructions if either test button is pressed
CO Trouble	Blink Amber every 5 secs	Dark	Silent	
CO End of Life - *First 29 days*	Blink Amber every 3 secs	Dark	Silent	Voice end of life instructions; press either test button
CO End of Life - *after 30 days*	Blink Amber every 3 secs	Dark	Chirp every 45 Seconds	Voice end of life instructions; press either test button
Power Up	Blink Green, every 2 secs	Dark	Silent	Voice welcome, instructions follow POR for language selection, enrollment, testing
Normal (Standby)	Single Blink Green every 10 sec	Dark	Silent	Silent

Table 2: LED Indication & Sounder during Test and Maintenance

Restore Factory Settings

Press and hold both the Smoke and CO test switch simultaneously for 10 seconds, then release. The green light will flash rapidly. Press and hold both buttons again for one second and release. The sensor will begin speaking.

Functional Gas Test

Solo C6 brand canned CO may be used to verify the detector's ability to sense CO by utilizing the RealTest® feature as follows:

1. Press and hold the CO test button for 3 to 5 seconds. The green LED will start blinking rapidly indicating the detector is in RealTest® mode. (If the detector will not go into RealTest® mode, the CO sensor may be in fault or at end-of-life.)
2. While the green LED is blinking rapidly, spray a small amount of canned CO directly into the CO gas entry port.
3. Upon successful gas entry and if functioning properly, the detector will go into CO alarm and send an alarm to the control panel.
4. The CO test will automatically clear when the CO clears from the sensor or in 30 seconds if no CO was introduced.

Hush feature / **Alarm Silence**: If required, the audible alarm can be silenced for 5 minutes by pushing the button marked "Test/Hush". During a Smoke alarm, if an alarm condition still exists after the 5 minute hush period, the alarm will sound. The hush facility will not operate at levels above 4%/ft smoke concentration.

During a CO alarm, if carbon monoxide is still present after the 5 minute hush period, the audible alarm will sound. The hush facility will not operate at levels above 350 ppm (parts per million) carbon monoxide.

CO sensor end-of-life timer feature: When the CO sensor has passed end-of-life, a trouble signal will be sent to the control panel. This indicates that the CO sensor inside the detector must be replaced. If unresolved for 30 days, the detector will chirp intermittently. The typical life of the CO sensor is ten years from the date of manufacture; it is recommended to periodically check the "Replace by" date located on the label on the back of the detector head.

Testing Signal Strength

Perform this test in accordance with NFPA 72 inspection, testing and maintenance requirements to determine a strong communication path with the control panel.

1. Activate the wireless system's GO/NO GO TEST mode from the keypad.
2. Press and hold the detector's Smoke TEST button (•). The detector should immediately transmit an alarm signal to the control panel. The built-in horn will start to sound about 2.5 seconds after pressing the button.
3. The wireless system's keypad should emit at least three audible sounds when the alarm transmission is received and will display the transmitting detector's zone number.
4. When the console has received the test signal, release the TEST button. The horn will immediately 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 noted, check the polarity of the battery and be sure it is fresh. 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 (see Enroll section). Then, repeat the test.
6. Turn off the system's TEST mode from the keypad (security code + OFF).

Do not paint, and do not use cleaning agents, bleach or polish the detector.
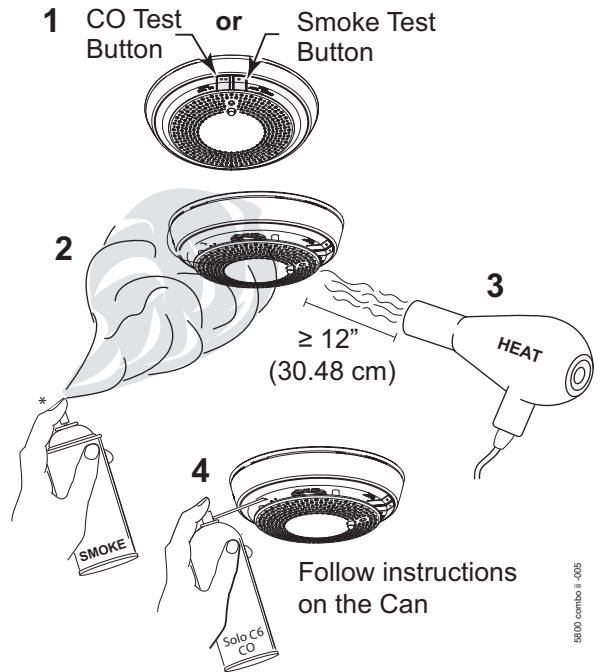
Maintenance

The 5800COMBO detector reports maintenance issues to the control panel and communicates them visually and audibly per Table 2. 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.

Table 3: Carbon Monoxide Detector: Events and Their ID Codes

Event	Alpha Keypad	CS Report
CO alarms	CO Alarm	CO alarm (CID 162)
CO test	CO Alarm	CO alarm (CID 162)
Low battery	Lo Bat	RF low-battery (CID 384)
detector	CO Trouble	RF sensor supervision (CID 381)
detector end-of-life/trouble	CO Trouble	sensor trouble - end-of life (CID 380)
tamper	disarmed = CO Trouble armed = CO Alarm	RF sensor tamper (CID 383)

1 CO Test Button **or** Smoke Test Button

2

3 ≥ 12" (30.48 cm) HEAT

4 Follow instructions on the Can

SMOKE

Solo C6 CO

5800 combo ii -005

Test

Cleaning

Note: Notify the proper authorities when the system will be temporarily out of service.

1. Remove the detector head 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 head to the mounting base by rotating clockwise.
4. Test the detector to insure it is fully functional. (See Testing section).
5. Notify the proper authorities and Central Station when the system is back in service.

NOTE: Before performing any maintenance on the detector, notify the proper authorities and 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.

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

LIMITED LIFE OF CO SENSOR

This detector is manufactured with a long-life electrochemical carbon monoxide sensor. Over time the sensor will lose sensitivity and will need to be replaced. The life span of the CO sensor is approximately ten years from the date of manufacture.

Periodically check the detector's replacement date. Remove the detector head and refer to the 'replace by' sticker placed on the underneath side of the detector. The sticker will indicate the date the detector should be replaced.

Reminder: This detector is also equipped with a feature that will signal the panel once the CO sensor has passed the end of its' useful life. If this occurs, it is time to replace the detector.

What to do if the detector goes into CO alarm:

If the detector goes into CO alarm (4 beeps), immediately move to a spot where fresh air is available, preferably outdoors, where the air is safe and call your security service provider. Tell your provider the detector alarm status, and that you require professional assistance in ridding your home of the carbon monoxide.

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 burnt. 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 appliances should not be dangerous.

FEDERAL COMMUNICATIONS COMMISSION & INDUSTRY CANADA 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 / IC STATEMENT

This device complies with Part 15 of the FCC Rules, and RSS-210 of Industry Canada. 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 & de RSS-210 des Industries 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.

RF EXPOSURE WARNING – The antenna(s) used for this device must be installed to provide a separation distance of at least 7.8 inches (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

MISE EN GARDE EXPOSITION AUX FREQUENCES RADIO: L'antenne (s) utilisée pour cet émetteur doit être installée à une distance de séparation d'au moins 7,8 pouces (20 cm) de toutes les personnes.

This product is intended for use with Honeywell controls that support 5800 series devices.

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 examples taken from NFPA 720; they represent approximate values for healthy adults.

Concentration (ppm CO)	Symptoms
200	Mild Headache after 2-3 hours of exposure
400	Headache and nausea after 1-2 hours of exposure
800	Headache, nausea, and dizziness after 45 minutes of exposure; collapse and unconsciousness after 2 hours of exposure

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

CO Alarm Activation

Per UL standard 2075, the 5800COMBO detector has been tested to the sensitivity limits defined in UL standard 2034.

CO Alarm Thresholds	
Parts per Million	**Detector Response Time (Min.)**
30+-3ppm	No alarm within 30 days
70+-5ppm	60-240
150+-5ppm	10-50
400+-10ppm	4-15

Specifications   Voice

Electrical Specifications

Voltage:	3 volts DC
Battery Type:	CR123A lithium
Battery Manufacturer:	Panasonic CR123A only
Number of Batteries:	4

Sensitivity : UL limits .9 to 2.84%/ft / ULC limits .9 to 2.64 %/ft
Thermal alarm: 135° F (57° C)
Freeze trouble: 41° F typical (5° C)
Audible Signal: 85dBA

Physical Specifications

Diameter: 16.002 cm x 4.19 cm Thick / 6.3 in. Diameter x 1.65 in. Thick
Weight: : 14.3 oz; 406 g
Operating Temperature Range: 32° – 122° F / 0° – 50° C
Storage Temperature Range: -10 - 70° C (14 - 158° F)
Operating Humidity Range: 20-95% RH

Approval Listings:
FCC / IC
Listed to UL 268, UL 521 & UL 2075.
Listed to ULC-S530, ULC-S531 & CSA 6.19.
Other Standards: RoHS

SUPPORT & WARRANTY

For the latest documentation and online support information, please go to:
https://mywebtech.honeywell.com/
For the latest warranty information, please go to:
www.honeywell.com/security/hsc/resources/wa.
For patent information, see www.honeywell.com/patents

MyWebTech   Warranty   Patents

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