

WS4933 (433MHz) Series Wireless Carbon Monoxide Detector

Installation and Operating Instructions

Read these instructions thoroughly before installation and use of the WS4933

The WS4933 is designed to monitor the CO gas level in residential dwellings and give early warning before potentially dangerous levels are detected. This device is intended for use with a compatible wireless alarm system.

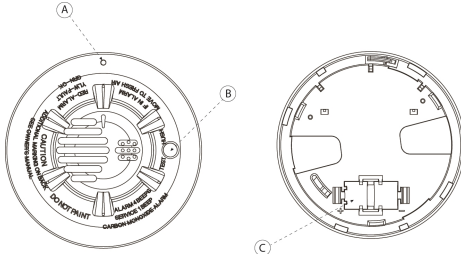
The detector consists of an electrochemical carbon monoxide sensor assembly coupled to a wireless transmitter. The Wireless Carbon Monoxide Alarm communicates with the control panel and can send alarm, tamper and battery condition messages to the system's receiver.

Caution: The detector expiry date is stamped on the detector. After the expiry date, the detector should not be used - do not wait for end-of-life indication!

This carbon monoxide detector is designed for indoor use only. Do not expose to rain or moisture. Do not knock or drop the detector. Do not open or tamper with the detector as this could cause malfunction. The detector will not protect against the risk of carbon monoxide poisoning if not properly installed.

CAUTION: This device will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. This carbon monoxide alarming device is designed to detect carbon monoxide gas from ANY source of combustion. It is NOT designed to detect smoke, fire or other gases unless the product has been investigated and determined to comply with applicable requirements.

Figure 1: WS4933 Wireless CO Detector



Legend

- A. Alarm LED (see Table 1 for LED indications)
- B. Test/Hush button
- C. Battery compartment

CAUTION: Unauthorized removal of the unit from the bracket will initiate a tamper alert.

Warnings:

The WS4933 Series wireless Carbon Monoxide detector shall be installed and used within an environment that provides the pollution degree max 2 and overvoltages category II in NON HAZARDOUS LOCATIONS, indoor only. The equipment is designed to be installed by SERVICE PERSONS only; (SERVICE PERSON is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons.)

Failure to properly install, test and maintain a CO detector may cause it to fail, resulting in loss of life. Installation of the CO detector should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances, including appropriate ventilation and exhaust systems.

Installation Instructions

Battery Installation

To replace the battery:

1. Remove the detector from its mounting base by twisting it counterclockwise. Remove and dispose of the battery according to your local regulations.
2. To ensure proper power-down sequence, wait a minimum of 20 seconds before installing the new battery.
3. Install a new 3-volt CR123A Panasonic Lithium battery in the battery compartment observing correct polarity. If the battery is incorrectly inserted, remove gently with a non-conductive tool and correctly reinsert.
4. Reinstall the detector onto the mounting base by turning it clockwise.
5. After the power-up sequence, the green LED should blink once every 12 seconds to indicate normal operation. If the battery is not installed correctly, the detector will not operate and the battery may be damaged.

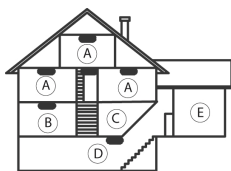
Enrollment

At the alarm control panel, program the 6-digit serial number of the WS4933 (located on the back of the detector). Please refer to your control panel installation manual for details.

Selecting a Location

Selecting a suitable location is critical for the CO detector. The Consumer Product Safety Commission (CPSC) recommends to use at least one CO detector per household, located as near as possible to sleeping areas of the home, because the human body is most vulnerable to the CO gas effect during sleeping hours.

Figure 2: CO Detector Placement



Legend

- A: Bedroom
- B: Living Room
- C: Kitchen
- D: Basement
- E: Garage

For added protection, install additional CO detectors in every separate bedroom and on every level of your home. If your bedroom hallway is longer than 14 meters (40 feet), install a CO detector at BOTH ends of the hallway. Install an additional detector 6 meters (20 feet) away from the furnace or fuel burning heat source.

For maximum protection, the detector should also be located outside primary sleeping areas or at each level of your home. Mount the detector on a firm wall or ceiling.

DO NOT install CO detectors:

- In locations where temperature may be below 0°C (14°F) or above 40°C (104°F).
- In locations where humidity is below 10% or above 93% RH non-condensing.
- Near paint thinner fumes.
- Near air conditioners, furnaces, stoves, fireplaces and any other ventilation source that may interfere with CO gas entering the detector.
- In locations where furniture or draperies may obstruct the air flow.
- In exhaust streams from gas engines, vents, flues or chimneys.
- Where dirt or dust could collect and block the sensor and prevent it from working.
- In locations that can be reached by children.
- In turbulent air from ceiling fans.
- In close proximity to an automobile exhaust pipe - this will damage the detector.

Mounting

The detector can be mounted on a wall or ceiling. For EN approved sites, only ceiling installation is allowed.

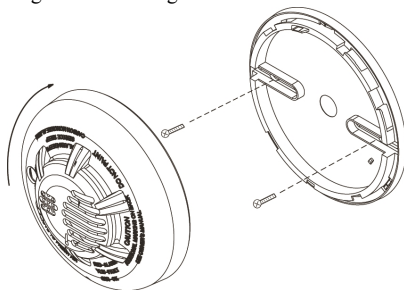
The WS4933 must be mounted with its bracket (when it is attached to its bracket the tamper switch is pressed and the detector automatic reset is performed).

1. Refer to the diagram below and install using screw locations as required. Maneuver the base so the screws are at the elbow of the screw slots and secure.
2. Fit the detector inside the mounting bracket by aligning it as shown in Figure 3 (detector's

alignment notch should be slightly offset from the mounting bracket tamper release tab), 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) and refer to the alarm control panel installation manual for additional information concerning the use of wireless devices.

Figure 3: Mounting the Detector



Tamper Protection

The WS4933 includes a tamper resistant feature that prevents removal from the mounting base without the use of a tool. To engage the tamper resistant feature, cut the small plastic tab located on the mounting bracket and then install the detector. To remove the detector from the base once it has been made tamper resistant, use an appropriate screwdriver to depress the square tamper release tab located on the skirt of the mounting bracket and turn the detector counterclockwise.

Owner's Instructions

Testing the Detector

Note: Before testing, notify the central station. Test the detector by pressing the Test/Hush button. The red LED flashes and the sounder emits a temporal 4 pattern. The keypad indicates that the detector is in alarm.

Maintenance

Press the detector's TEST/Hush button once every week to ensure proper operation of the detector. When low battery alarm exists (see specifications) immediately replace the battery. Once a month, use a vacuum cleaner to keep the air vents free of dust.

Audible and Visual Indications

The tricolored LED (green, yellow, red) and a sounder on the detector provide local visual and audible indication of the detector's status as listed in Table 1.

Status	LEDs	Sounder (does not pulse the sounder and LED concurrently)	Radio Signalling
Normal	Green flash every 12 seconds	Off	Normal (none)
Alarm/Test	Red flash every 12 seconds	ANSI S3.41 temporal 4 (press button to hush for 5 minutes)	Alarm
Detector Trouble	Yellow flash every 6 seconds	One 100ms chirp every 45 seconds	Fault
Low Battery	Yellow flash every 12 seconds	One 100ms chirp every 45 seconds (press button to hush for 12 hours)	Low battery
Detector End of Life	Yellow flash every 23 seconds	One 100ms chirp every 45 seconds	Fault
Powerup	Green, yellow, red flash sequence every 12 seconds	One 100ms chirp at end of power-up sequence	None
Tamper	Green, yellow, red flash sequence every 12 seconds	Off	Tamper

Table 1: Detector Status and Indication

Specifications

End of life:	7 years (see date stamped on back of detector)
Operating frequency:	433MHz
Audible signal (temp 4 tone):	85 dBA min. in alarm (at 10ft (3m))
Operating current:	10 μ A
Temperature range:	0°C to 40°C (32°F to 104°F)
Operating humidity range:	15% to 95% Relative Humidity, non-condensing
Transmitted messages:	CO gas alarm, low battery, tamper, trouble message as a result of sensor end of life or sensor trouble, supervision.
Power source:	One 3-volt CR123A Panasonic Lithium Battery (included)
Battery supervision:	Automatic transmission of battery status data as part of any transmitted message.
Battery life expectancy:	5 years (under typical use). Note: Constant exposure to temperature or humidity extremes may reduce battery life.
Low battery threshold:	2.3 V

You should know about Carbon Monoxide.

Carbon monoxide, also known as "CO" by the chemical form, is considered to be a highly dangerous poisonous gas, because it is colorless, odorless or tasteless and very toxic. In general, biochemistry phenomena have shown that the presence of CO gas inhibits the blood's capacity to transport oxygen throughout the body, which can eventually lead to brain damage. In any enclosed space (home, office) even a small accumulation of CO gas can be quite dangerous. Although many products of combustion can cause discomfort and adverse health effects, it is CO gas which presents the greatest threat to life. Carbon monoxide is produced by the incomplete combustion of fuels such as natural gas, propane,

heating oil, kerosene, coal, charcoal, gasoline, or wood. The incomplete combustion of fuel can occur in any device which depends on burning for energy or heat such as furnaces, boilers, room heaters, hot water heaters, stoves, grills, and in any gasoline powered vehicle or engine (e.g., generator set, lawnmower). Tobacco smoke also adds CO to the air you breathe. When properly installed and maintained, your natural gas furnace and hot water heater do not pollute your air space with CO. Natural gas is known as a "clean burning" fuel because under correct operating conditions, the combustion products are water vapor and carbon dioxide (CO₂), which is not toxic. The products of combustion are exhausted from furnaces and water heaters to the outside by means of a fuel duct or chimney. Correct operation of any burning equipment requires two key conditions:

- a. An adequate supply of air for complete combustion.
- b. Proper venting of the products of combustion from the furnace through the chimney, vent or duct to the outside.

Typical carbon monoxide gas problems are summarized here:

- a. Equipment problems, due to defects, poor maintenance, damaged and cracked heat exchangers.
- b. Collapsed or blocked chimneys or flues, dislodged, disconnected or damaged vents.
- c. Downdraft in chimneys or flues. This can be caused by very long or circuitous flue runs, improper location of flue exhaust or wind conditions.
- d. Improper installation or operation of equipment, chimney or vents.
- e. Air tightness of house envelop/inadequate combustion of air.
- f. Inadequate exhaust of space heaters or appliances.
- g. Exhaust ventilation/fireplace competing for air supply.

Potential sources of carbon monoxide in your home or office include clogged chimney, wood stove, wood or gas fireplace, automobile and garage, gas water heater, gas appliance, gas or kerosene heater, gas or oil furnace, and cigarette smoke.

More information about conditions which result in transient CO situations:

- 1. Excessive spillage or reverse venting of fuel burning appliances caused by:
 - a. Outdoor ambient conditions such as wind direction and or velocity, including high gusts of wind; heavy air in the vent pipes (cold humid air with extended periods between cycles).
 - b. Negative pressure differential resulting from the use of exhaust fans.

- c. Simultaneous operation of several fuel burning appliances competing for limited internal air.
 - d. Vent pipe connection vibrating loose from clothes dryers, furnaces, or water heaters.
 - e. Obstructions in or unconventional vent pipe designs which amplify the above situation.
2. Extended operation of unventilated fuel burning devices (range, oven, fireplace, etc).
 3. Temperature inversions which can trap exhaust gases near the ground.
 4. Car idling in an open or closed attached garage, or near a home.

Possible Symptoms of Carbon Monoxide Poisoning

Carbon monoxide is colorless, odorless, tasteless, and very toxic. When inhaled, it produces an effect known as chemical asphyxiation. Injury is due to the combining of CO with the available hemoglobin in the blood, lowering the oxygen-carrying capacity of the blood. In the presence of CO gas, the body is quickly affected by oxygen starvation. The following symptoms are related to CO poisoning and should be discussed with all members of the household:

- a. Mild exposure: slight headache, nausea, vomiting, fatigue (often described as "Flu-like" symptoms).
- b. Medium exposure: severe throbbing headache, drowsiness, confusion, fast heart rate
- c. Extreme exposure: unconsciousness, convulsions, cardiorespiratory failure, death.
- d. Many cases of reported CARBON MONOXIDE POISONING indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the building or calling for assistance. Young children and household pets are typically the first affected.

Action to Take When Alarm Sounds

In case harmful levels of CO gas are detected, your detector will go into continuous full alarm. Try to take the following necessary actions immediately:

1. Push the detector Test/Hush switch to silence the alarm. Warning: Never remove the battery to silence the alarm. Removing the battery removes your protection! Pushing the Test/Hush button mutes the alarm for 5 minutes. After 5 minutes, the alarm resumes if CO levels remain high. Call your emergency service (Please write the telephone numbers):
(tel. No.);
or fire department:
(tel. No.).
2. Immediately move to fresh air - outdoors or by opening door/window. Do a head count to check that all persons are accounted for. Do

not reenter the premises nor move away from the open door/window until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in normal condition.

3. After following steps 1 - 3, if your alarm reactivates within a 24-hour period, repeat steps 1 - 3 and call a qualified technician (Tel. No.) to investigate for sources of CO gas from fuel burning equipment and appliances, and inspect 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 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.

Warning: CO gas can be extremely fatal and can come from several possible sources. This detector only indicates the presence of CO gas near the sensor. CO gas may be present in other areas of the premises.

Action to be Taken After the Problem has been Corrected

Once the problem of CO gas presence in the premises has been corrected, the detector's alarm should be off. After waiting for 10 minutes, push the Test/Hush button to verify that the detector is functioning properly.

Warnings and Limitations

This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards.

Caution: The detector will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm.

The alarm, including the sensor, is not to be located within 1.5m (5 feet) of any cooking appliance.

The detector may not alarm at low carbon monoxide levels. The Occupational Safety and Health Association (OSHA) has established that continuous exposure levels of 50 ppm should not be exceeded in an 8 hour period. Individuals with medical conditions may consider more sensitive detection devices.

The CO gas detector is not suitable as a smoke detector or fire detector. This detector is not suitable to install in hazardous locations as defined in the National Electrical Code.

Carbon monoxide must reach the detector for proper performance of CO gas detection. The detector may not protect people who are at special risk from carbon monoxide exposure by reason of age, pregnancy or medical condition. If in doubt, consult your medical practitioner.

CO detectors may wear out because they contain electronic parts that fail over time. Test your detector at least every week.

Instruct children never to play with the detector.

Never use detergents or other solvents to clean the detector.

Avoid spraying air fresheners, hair spray, paint or other aerosols near the detector.

Do not paint the detector. Paint will seal the detectors vents and interfere with detecting CO gas.

Detailed information on conditions which can result in transient CO situations:

1. Excessive spillage or reverse venting of fuel burning appliances caused by:
 - a. Outdoor ambient conditions such as wind direction and/or velocity, including high gusts of wind; heavy air in the vent pipes (cold/humid air with extended periods between cycles).
 - b. Negative pressure differential resulting from the use of exhaust fans.
 - c. Simultaneous operation of several fuel burning appliances competing for limited internal air.
 - d. Vent pipe connection vibrating loose from clothes dryers, furnaces, or water heaters.
 - e. Obstructions in or unconventional vent pipe designs which amplify the above situations.
2. Extended operation of unvented fuel burning devices (range, oven, fireplace, etc.).
3. Temperature inversions which can trap exhaust gases near the ground.
4. Car idling in an open or closed attached garage, or near a home.

CAUTION: Never disassemble the CO Alarm; there are no user serviceable parts inside the unit. You may only remove the CO Alarm from the mounting bracket to replace the battery if not serviced by an installer. When replacing the battery, follow the directions specified within the Installation Instructions, Installing/Replacing battery.

CAUTION: This product uses a lithium battery, improper handling may result in HEAT, EXPLOSION or FIRE causing personal injury. DO NOT recharge batteries. Follow the battery manufacturer's safety instructions. Dispose of used batteries in accordance with the regulations in your area.

Never paint the unit. Paint may prevent CO gas from entering the unit. This is a safety issue the CO alarm must not be removed .

The WS4933 Wireless Carbon Monoxide Alarm has been designed to provide an alarm based on various exposure times at different levels of carbon monoxide concentrations as per UL 2034 standard: This CO alarm WS4933 meets the following mentioned response times: At 70ppm, the unit must alarm within 60-240 minutes. At 150ppm, the unit must alarm within 10-50 minutes. At 400ppm, the unit must alarm within 4-15 minutes.

Limited Warranty

Digital Security Controls warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall Digital Security Controls be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

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Warning: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Important Information: Changes or modifications not expressly approved by Digital Security Controls could void the user's authority to operate this equipment.

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DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

Regulatory Information

FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by DSC could void your authority to use this equipment.

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to

Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

This device complies with part 15 of the FCC Rules. 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.

FCC ID: F5316WS4933

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The complete R&TTE Declaration of Conformity can be found at http://www.dsc.com/listings_index.aspx

(CZ) DSC jsko výrobce prohlašuje, že tento výrobek je v souladu se všemi relevantními požadavky směrnice 1999/5/EC.

(DAN) DSC erklærer herved at denne komponent overholder alle vigtige krav samt andre bestemmelser gældende i direktiv 1999/5/EC.

(DUT) Hierby verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

(FIN) DSC vakuuttaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset.

(FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigences essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

(GER) Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Voraussetzungen der Richtlinie 1999/5/EC entspricht.

(GRE) Δια του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιαστικές απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC.

(ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CE.

(NOR) DSC erklærer at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

(POL) DSC oświadcza, że urządzenie jest w zgodności z zasadniczymi wymaganiami oraz pozostałymi stosowanymi postanowieniami Dyrektywy 1999/5/WE.

(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/EC.

(SPA) Por la presente, DSC, declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

(SWE) DSC bekräftar härmed att denna apparat uppfyller de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.



From Tyco Security Products

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Innovation, Science and Economic Development Canada Statement

IC:160A-WS4933

The letters "IC:" indicate that this is an Innovation, Science and Economic Development Canada's certification number

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

CAN ICES-3 (B)/NMB-3(B)