Carbon Monoxide Alarm with Indoor Air Quality Monitor

KIDDE™

User Guide

Carbon Monoxide Alarm
with Indoor Air Quality
and Wi-Fi Compatibility

Model KN-COP-DP-10YL-AQ-WF



Wi-Fi COMPATIBILITY:
This model requires a home Wi-Fi router
and internet to connect to a mobile device.
(Requires 802.11b/g/n (2.4GHz) Wi-Fi)

NOTE: Wi-Fi features do not function without AC power.

KIDDE Wi-Fi CO ALARM

- **120V AC DIRECT PLUG-IN**
- **10-YEAR SEALED BATTERY BACKUP (AC POWER REQUIRED)**
- **INDOOR AIR QUALITY MONITORING**
- **Wi-Fi COMPATIBLE**

SIGNALING UL® LISTED

LISTING STATE OF CALIFORNIA STATE FIRE MARSHAL SERVICE

Wi Fi® CERTIFIED

P/N: 2565-7201-02 Rev.A

Thank You for Purchasing this Wi-Fi Alarm

Powered by plugging directly into a non-switched 120VAC wall outlet, this model features a non-replaceable, sealed-in battery backup. It is Wi-Fi compatible with mobile devices.



For best Wi-Fi enrollment results, follow these steps:

1. Scan QR code shown in STEP 1 on the front of the Quick Start Guide. Install the Kidde app.
2. Open the Kidde app. Create and login to your account. Tap "Add a device." Select "Carbon Monoxide Alarm with Indoor Air Quality Monitor." Follow in-app steps.
3. Scan your unique QR code, shown in STEP 3 of the Quick Start Guide, or on back of your alarm. Setup and connect alarm to the app. This will include the installation steps shown in sections 8 and 9.
4. Complete setup by following in-app steps.

Teach children how to respond to the alarm and that they should never play with the unit. This alarm is designed to detect carbon monoxide from any source of combustion in a residential environment. It is not designed for use in a recreational vehicle (RV) or boat.

NOTE: Please thoroughly read this user guide and save the document for future reference and to pass on to any subsequent owner. Images in this user guide are representative only. Actual product may vary slightly.

The National Fire Protection Association (NFPA) and the manufacturer recommend replacing this alarm ten years from the date code on back of alarm.

⚠ **WARNING:** Mobile alert services are ancillary to the product and for informational purposes only. They are not intended or suitable for life safety or critical purposes nor do these services take the place of third-party life safety monitoring services. This product's smartphone and tablet notifications require a stable Wi-Fi connection, and are only as reliable as your home Wi-Fi network.

Product Support: 1-877-542-5471

Please write down the below information and have this at hand when you call.

Date Code (on back): _____

Date of Purchase: _____

Where Purchased: _____

Date to Replace: _____

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1. Carbon Monoxide Alarm: What To Do When the Alarm Sounds

The carbon monoxide (CO) alarm pattern is four quick beeps repeating every 5 seconds. The red LED blinks in time with the alarm pattern and the digital display will show the concentration of CO detected. On DC power only, after 4 mins, the alarm pattern will only occur every 60 sec.

⚠ **WARNING:** Carbon monoxide alarm activation indicates the presence of Carbon Monoxide (CO) at high concentrations which can kill you.

1) Operate the Test/Hush button. NOTE: Pressing the Test/Hush button will silence the alarm notification. If the unit goes into alarm mode again within six minutes, it is sensing high levels of CO which can quickly become a dangerous situation.

2) Call your emergency services (Fire Department or 911).
Emergency phone #:_____

3) Immediately move to fresh air—outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Alert small children in the home as well as anyone else that might have difficulty recognizing the importance of the alarm sounding or that might have difficulty leaving the area without help. Do not reenter the premises or 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 its normal condition.

4) After following steps 1-3, if the alarm reactivates within a 24 hour period, repeat steps 1-3 and call a qualified appliance technician to investigate sources of CO from fuel burning equipment and appliances, and to inspect for proper operation of 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 manufacturer directly for more information about CO safety and the equipment. Make sure that motor vehicles are not, or have not been, operating in a garage attached or adjacent to the residence. Never restart the source of a CO problem until it has been corrected. Never ignore the sound of the alarm!

NOTE: See Section RECOGNIZING NUISANCE ALARMS, for nuisance alarm situations.

2. Other Alarm Visual and Audible Indicators

(See Section 10 for Indoor Air Quality Indications)

Operational Mode	Visual Indications	Audible Indications	Action/Note:
Normal (standby)	 AC power = Display constantly on. The IAQ status and CO 0 PPM alternate on the display every 5 sec. DC power = Green LED blinks every 60 sec.		* The Wi-Fi symbol indicates signal strength by displaying multiple bars. * Indoor air quality monitoring and Wi-Fi only work if AC power is present. If operating on backup battery only, the display will only show CO alarm notifications.
Temperature and Humidity status			* Push and release(less than 2 sec.) the Peak Level button to view temperature and humidity.
Test (Test/Hush button press when no alarm condition is present)	 • Test: Red LED blinks in time with alarm pattern. • Green LED fade on/off at test complete.	• Button press sound • 4 quick beeps, pause, 4 quick beeps	Perform Test/Hush button press once a week to verify proper alarm operation.
Peak Level CO (highest level of CO detected)	 * Display shows highest CO detected after Peak Level button push. * If 100ppm or more CO detected, display flashes "PRIOR CO."		* If "PRIOR CO" is flashing, push the Peak Level button to view the level of CO previously detected. * To clear Peak Level Memory, push/ hold the Peak Level button for a few seconds.
CO Alarm Reset	The IAQ status and CO PPM alternate on the display.	CO alarm pattern stops after Test/ Hush button push.	Unit is confirming if CO is present or if it experienced a nuisance situation. Re-alarm means danger. Move to fresh air and call 911.

3. Troubleshooting Guide

If you are experiencing a problem with your alarm, or a fault, and are unsure of the next action, please contact product support at 1-877-542-5471 before discharging the battery. You may also write us at: Kidde, 1016 Corporate Park Drive, Mebane, NC 27302, or visit our internet address at www.kidde.com.

Trouble Condition	Visual Indications	Audible Indications	Action:
Low Battery		Chirp every 60 sec.Low battery message and icon blinks on/off with chirp. Low battery icon will blink on/off every sec after Test/ Hush button push.	* Push Test/Hush button once to silence for 10 hours. * Remove, discharge, dispose unit, and replace as soon as possible.
Fault Mode		Chirp every 30 sec.	* See Cleaning Your Alarm section. * Push Test/Hush button once to attempt to reset the unit. * If error persists, or if customer service directs, remove, discharge, dispose unit, and replace as soon as possible.
End of Unit Life		Double chirp every 30 sec.Replace Unit message scrolls across screen. End of unit life icon will blink on/off every sec.	* Push Test/Hush button once to silence for 3 days. This can be repeated up to 10 times for no more than 30 days. (Push button again to clear Hush and perform a test.) * Remove, discharge, dispose unit, and replace as soon as possible.
Wi-Fi Enrollment		Wi-Fi icon will blink on/off every sec.	* Wi-Fi setup is incomplete. The unit will be in setup mode for 15 consecutive minutes, during which the display will show "PROGRAMMING"
Loss of Wi-Fi Connection		Wi-Fi icon will blink on/off every sec.	* The unit will attempt to re-connect on its own. After 10 consecutive mins of lost connection, you will receive a notification of "Loss of Wi-Fi Connection" in your mobile App. * Contact customer service. If error persists, or if customer service directs, remove, discharge, dispose unit, and replace as soon as possible.
Stuck Button	Same as Normal (standby)	Chirp every 4 sec.	* Push button to dislodge it from being stuck. If button cannot be unstuck, remove alarm, discharge, dispose unit, and replace as soon as possible.
MCU Failure	None	Constant Tone	* Remove alarm, discharge, dispose unit, and replace as soon as possible.

4. Introduction, Product Features and Specifications

Introduction

This alarm detects carbon monoxide using an electrochemical cell. The device also monitors the indoor air quality of the residence. Many times throughout this User Guide, we will refer to Carbon Monoxide as "CO." Ten (10) years after the unit was activated, this unit will automatically alert you that it is time to replace the unit. This is called "End of Unit Life" mode. See Troubleshooting Guide. To help identify the date to replace the unit, a label has been affixed to the side of the alarm. Write the "Install date" in the space provided, and then write in the "Replace by" date (10 years from initial power up) in permanent marker on the label prior to installing the unit. **NOTE: AC power must be connected to obtain the full 10 year battery and unit life.** Two labels have been provided that have important information on what to do in case of a CO alarm. Place one label at eye level on a wall near the alarm after it is mounted, and one near a fresh air source such as a door or window.

This model supports bilingual American English/Canadian French languages for display messages. The default is American English. The display language can be toggled by pressing the "Test" button twice in succession. **NOTE:** All documentation is only available in American English.

Product Features and Specifications:

- Temperature: Operating Range: 40°F (4.4°C) to 100°F (37.8°C)
- Humidity: Operating range: 10-95% RH non-condensing
- Audible Alarm: 85+ dB at 10' 3.0 to 3.5 KHz pulsing alarm
- CO Sensor: Electrochemical
- Indoor Air Quality Monitoring
  NOTE: The indoor air quality sensors and features are not designed for life safety, and are not OSHA or UL certified.These features offer additional notifications to the consumer, and will not affect life safety performance (CO detection) of your Wi-Fi alarm.
- Powered by 120VAC (60 Hz, 90mA max) direct plug-in with sealed lithium battery backup
- Wi-Fi Compatible to Mobile Device (Requires 802.11b/g/n (2.4GHz) Wi-Fi)
- Digital Display

5. Limitations of Carbon Monoxide Alarms

IMPORTANT: This carbon monoxide alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.

⚠ **WARNING:** Carbon monoxide alarms are not smoke alarms. This carbon monoxide alarm is not a substitute for installing and maintaining an appropriate number of smoke alarms in your home.

This carbon monoxide alarm will not sense smoke, fire, or any poisonous gas other than carbon monoxide even though carbon monoxide can be generated by fire. For this reason you must install smoke alarms to provide early warning of fire and to protect you and your family from fire and its related hazards.

⚠ **WARNING: PLEASE READ CAREFULLY AND THOROUGHLY**

- IMPORTANT: This alarm is designed to detect carbon monoxide gas from ANY source of combustion. It is NOT designed to detect any other gas.

⚠ **CAUTION:** This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. Never restart the source of a CO problem until it has been fixed. NEVER IGNORE THE ALARM!

⚠ **WARNING: 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. IT IS NOT SUITABLE FOR INSTALLATION IN HAZARDOUS LOCATIONS AS DEFINED IN THE NATIONAL ELECTRIC CODE. IT IS NOT DESIGNED FOR USE IN A RECREATIONAL VEHICLE (RV) OR BOAT.**

- The installation of this device should not be used as a substitute for proper installation, use, and maintenance of fuel burning appliances, including appropriate ventilation and exhaust systems.
- This alarm does not prevent CO from occurring, nor can it solve any existing CO problem.

⚠ **WARNING: THIS DEVICE IS DESIGNED TO PROTECT INDIVIDUALS FROM ACUTE EFFECTS OF CARBON MONOXIDE EXPOSURE. IT WILL NOT FULLY SAFEGUARD INDIVIDUALS WITH SPECIFIC MEDICAL CONDITIONS. IF IN DOUBT, CONSULT A MEDICAL PRACTITIONER. INDIVIDUALS WITH MEDICAL PROBLEMS MAY CONSIDER USING WARNING DEVICES WHICH PROVIDE AUDIBLE AND VISUAL SIGNALS FOR CARBON MONOXIDE CONCENTRATIONS UNDER 30 PPM. ***

- This alarm has not been investigated for carbon monoxide detection below 70 PPM.
- This combination smoke and carbon monoxide alarm requires a continuous supply of electrical power – it will not work without power.

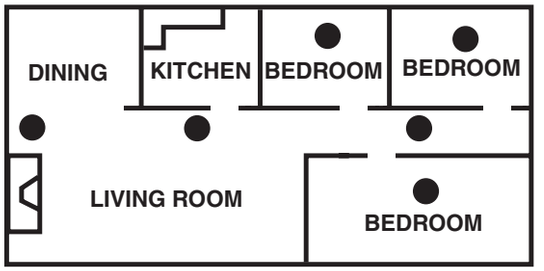
* Reference Underwriters Laboratories (UL) standard 2034

6. Recommended Locations For Carbon Monoxide Alarms

CO alarms should be mounted in or near bedrooms and living areas. In addition, industry experts recommend a CO alarm be installed on each level of the home-ideally on any level with fuel burning appliances and outside of sleeping areas.

When choosing your installation locations, make sure you can hear the alarm from all sleeping areas. If you install only one CO alarm in your home, install it near bedrooms, not in the basement or furnace room.

The CO alarm plugs into a wall socket. Children must be taught not to handle the CO alarm.



Recommended Locations

Figure 6

7. Locations to Avoid

(See Figure 6 for recommended locations)

- In the garage. Products of combustion are present when you start your automobile.
- Do not install within 6 ft. of heating or cooking appliances.
- In an area where the temperature may fall below 40°F or rise above 100°F, such as garages and unfinished attics.
- In dusty areas. Dust particles may cause nuisance alarms or a failure to alarm.
- In very humid areas (above 95% RH, non-condensing), as moisture or steam can cause nuisance alarms.
- In insect-infested areas.
- Within 3 ft (0.9m) of the door to a bathroom containing a tub or shower, forced air supply ducts used for heating or cooling, ceiling or whole house ventilating fans, or other high air flow areas.
- Near lights. Electronic “noise” generated by the electronics may cause nuisance alarms.
- Do not install near vents, flues or chimneys.
- Do not install near fans, doors, windows or areas directly exposed to the weather.
- Do not install in dead air spaces, such as peaks of vaulted ceilings or gabled roofs, where CO may not reach the sensor in time to provide early warning.
- Do not install this unit near deep-cell large batteries. Large batteries have emissions that can cause the alarm to perform at less than optimum performance.
- Do not obstruct the vents located on the alarm. Do not place the alarm where drapes, furniture or other objects block the flow of air to the vents.

8. Kidde App Features and Instructions



For best Wi-Fi enrollment results, follow these steps:

1. Scan QR code shown in STEP 1 on the front of the Quick Start Guide. Install the Kidde app.
2. Open the Kidde app. Create and login to your account. Tap “Add a device.” Select “Carbon Monoxide Alarm with Indoor Air Quality Monitor.” Follow in-app steps.
3. Scan your unique QR code, shown in STEP 3 of the Quick Start Guide, or on back of your alarm. Setup and connect alarm to the app. This will include the installation steps shown in sections 8 and 9.
4. Complete setup by following in-app steps.

Your Kidde app is user friendly and allows helpful features such as:

- Receive notification when the device needs to be replaced.
- Receive notifications if carbon monoxide or indoor air quality issues are detected.
- Simplify setup - Just scan the QR code on the back of the product. No additional hub is needed.
- Test the alarm when you are home (on the same Wi-Fi network). *
- Notify friends and family of potential danger.
- Smart Hush® false alarms when you are home (on the same Wi-Fi network). *

NOTE: The app receives real-time updates. The paper or online copy of your user guide will most likely lag behind the app’s real-time updates. Visit Kidde.com to find and download or print the latest user guide.

*** This feature only applies to Kidde Wi-Fi alarms/devices.**

9. Installation, Activation, and Wi-Fi Enrollment



For best Wi-Fi enrollment results, follow these steps:

1. Scan QR code shown in STEP 1 on the front of the Quick Start Guide. Install the Kidde app.
2. Open the Kidde app. Create and login to your account. Tap “Add a device.” Select “Carbon Monoxide Alarm with Indoor Air Quality Monitor.” Follow in-app steps.
3. Scan your unique QR code, shown in STEP 3 of the Quick Start Guide, or on back of your alarm. Setup and connect alarm to the app. This will include the installation steps shown in sections 8 and 9.
4. Complete setup by following in-app steps.

- The appropriate power source is 120 Volt AC Single Phase, supplied from a non-switchable wall outlet circuit.

Wi-Fi COMPATIBILITY:

This model requires a home Wi-Fi router and internet to connect to a mobile device.(Requires 802.11b/g/n (2.4GHz) Wi-Fi)

⚠ **WARNING:** The alarm cannot be operated from power derived from a square wave, modified square wave or modified sine wave, inverter. These types of inverters are sometimes used to supply power to the structure in off grid installations, such as solar or wind derived power sources. These power sources produce high peak voltages that will damage the alarm.

NOTE: This model is equipped with a feature that automatically activates the battery backup when the alarm is plugged into an AC outlet for the first time. The battery activation is a one-time feature. After activation, the battery cannot be turned off and can only be discharged at the end of unit life. If the alarm is removed from the wall outlet, the backup battery will remain active. See Permanently Disable Alarm / Discharge Battery section.

⚠ **WARNING**: Failure to properly install and activate this alarm will prevent proper operation of this alarm and will prevent its response to CO hazards.

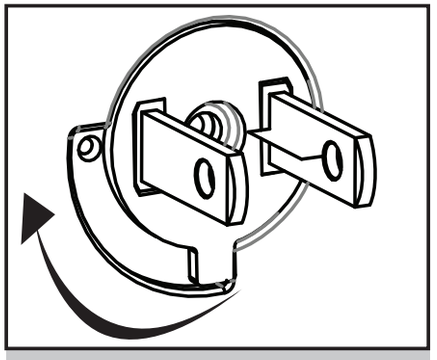
IMPORTANT: These alarms are not hardwire interconnected. They do not communicate with other AC hardwire or AC plug-in alarms. Wi-Fi functionality is only between alarms and a mobile device.

NOTE: The IAQ product takes a minimum of 5 minutes to warm up before air quality information is available. However the device can take up to 4 days to achieve full accuracy.

NOTE : At any time during Wi-Fi enrollment, if you have a problem, you can push and hold the button on any problem unit until you hear two (2) beeps (approx 8 sec), and then release the button. The unit will reset the unit's wireless settings (described in Section 9.3). Once wireless settings are reset, the unit will search for an existing Wi-Fi network.

STOP If you are installing for Wi-Fi functionality, and have not yet downloaded the Kidde App, do not plug your Wi-Fi unit into the wall outlet yet. See Section 8 for instructions on downloading the Kidde App.

NOTE: This model supports bilingual American English AND Canadian French languages for display messages. The default is American English. The display language can be toggled by pressing the "Test" button twice in succession. Note: All documentation is only available in American English.



90º ROTATING DIRECT PLUG

9.1 Setting Up Wi-Fi Enrollment

A. Choose plug orientation, plug-in alarm.

- Remove the switch cover.
- Choose a standard 120V non-switched outlet to plug the alarm into.
- If outlet is mounted sideways (horizontally), rotate the plug and plug the alarm in.
- The LCD will blink the question mark Wi-Fi icon with message "PROGRAMMING".

⚠ **CAUTION: Do not rotate the alarm while it is plugged into an outlet, as damage to plug may result.**

B. Open the Kidde App and follow instructions on the App to finish Wi-Fi enrollment.

NOTE: If no further steps are taken within 15 minutes of initial power up, the Wi-Fi function will turn off. The unit will then perform as a standard CO alarm. See Section 9.3 for reactivating Wi-Fi features.

C. After the Wi-Fi enrollment is completed, the "PROGRAMMING" message will turn off, and the unit will enter Normal (standby) mode.

D. Repeat steps A through C with each alarm to be enrolled with Wi-Fi.

9.2 Adding Another Device to an Existing Wi-Fi Alarm Network

For various reasons, you might want to add additional units to your existing Wi-Fi alarm network. Modifying your existing Wi-Fi alarm network is easy and user-friendly.

A. Choose plug orientation, plug-in alarm.

- Remove the switch cover.
- Choose a standard 120V non-switched outlet to plug the alarm into.
- If outlet is mounted sideways (horizontally), rotate the plug and plug the alarm in.
- The LCD will blink the question mark Wi-Fi icon with message "PROGRAMMING".

⚠ **CAUTION:** Do not rotate the alarm while it is plugged into an outlet, as damage to plug may result.

B. Open the Kidde App and follow instructions on the App to finish Wi-Fi enrollment.

NOTE: If no further steps are taken within 15 minutes of initial power up, the Wi-Fi function will turn off. The unit will then perform as a standard CO alarm. See Section 9.3 for reactivating Wi-Fi features.

C. After the Wi-Fi enrollment is completed, the "PROGRAMMING" message will turn off, and the unit will enter Normal (standby) mode with the display showing the Wi-Fi icon.

D. Repeat steps A through C with each alarm to be enrolled with Wi-Fi.

9.3 Resetting a Device's Wireless Settings

If you encounter an issue at any point during the Wi-Fi enrollment process, you may reset the device by following the directions below.

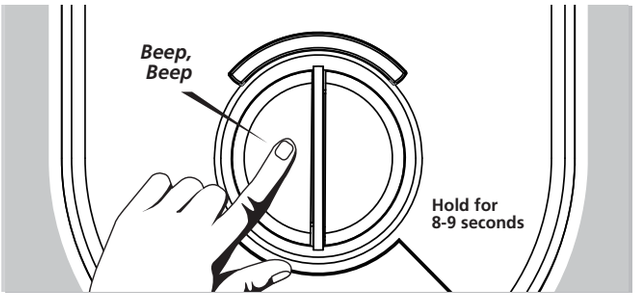


Figure 9.3

A. Begin reset

- Press and hold the Test/Hush button on the device for 8-9 seconds until you hear 2 beeps. Release button.

B. Conclude reset

- Light ring will flash green once and then it will pulse red.
- Device has been reset.
- See Section 9.1 to begin Wi-Fi enrollment, or 9.2 for adding this device to an existing Wi-Fi alarm network.

NOTE: If no further steps are taken within 15 minutes of resetting the unit's wireless settings, the Wi-Fi function will turn off. The unit will then perform as a standard CO alarm. See Section 9.2 for adding this device to an existing alarm network.

9.4 Amazon Alexa and Google Assistant™

Your WiFi alarm is compatible with Amazon Alexa and Google Assistant. Follow instructions in the Kidde app help section to link your WiFi alarm to Amazon Alexa and/or Google Assistant.*

* AMAZON and ALEXA are trademarks of Amazon Technologies, Inc. or its affiliates.
Google and Google Assistant are trademarks of Google LLC.

10. Operation and Testing

CO ALARM SENSOR RESPONSE TIMES
At 70 PPM, the unit must alarm within 60-240 minutes.
At 150 PPM, the unit must alarm within 10-50 minutes.
At 400 PPM, the unit must alarm within 4-15 minutes.

Operation

The alarm is operating once it is activated and testing is complete. When products of combustion (CO) are sensed, the unit sounds a loud alarm. The digital display will also show the level of CO detected in PPM. (See Section 1 for alarm signal descriptions). In high levels of CO, the unit will go into alarm in a shorter period of time than at low levels of CO.

Indoor Air Quality

This device is designed to monitor levels of temperature, relative humidity and total volatile organic compounds (TVOC) – chemicals in the air that can impact your health. Visit www.epa.org for more information on VOCs. Relative Humidity % (RH) refers to the percentage of water vapor in the air at a given temperature. Ideal RH for living conditions is usually recommended at 30% - 60%. The parameters listed below are based on a typical average, climate controlled residence. When conditions in the residence move outside of the limits shown in the table, an alert is sent to your mobile device. You can also check the status of your indoor air quality using the Kidde app, after your alarm is registered with the app.

Indoor Air Quality Parameters

Air Quality	Visual indications	Relative Humidity (%)	Approx. VOC conc. (ug/m^3)	Temperature (F)
Good		30-50	<1,000	<=77 & >=64
Moderate		25-30 or 50-60	<3,000	>77 & <=79 or <64 & <=62
Bad		20-25 or 60-70	<10,000	>79 & <=92 or <62 & <=48
Very Bad		<20 or >70	>10,000	>92 or <48

NOTE: The indoor air quality monitor may not react to some particles and its readings may be different from that of other air quality measuring products and instruments.

Testing

Test your alarm weekly by pressing and releasing the Test/Hush button quickly. A quick beep will confirm the button has been pushed followed by the test sequence. See Other Alarm Visual and Audible Indicators table. The alarm will sound if the electronic circuitry, horn, and battery are working. If the alarm does not sound, or gives erratic or low volume sound, the unit must be replaced. See Permanently Disable Alarm / Discharge Battery section to determine how to prepare the unit for shipment or disposal.

⚠ WARNING: DUE TO THE LOUDNESS OF THE ALARM, ALWAYS STAND ABOUT 2.5 FEET AWAY FROM THE UNIT OR USE EAR PROTECTION WHEN TESTING.

⚠ WARNING: DO NOT USE AN OPEN FLAME TO TEST YOUR ALARM, YOU COULD DAMAGE THE ALARM OR IGNITE COMBUSTIBLE MATERIALS AND START A STRUCTURE FIRE.

Chirping

This unit samples the ambient light conditions of the alarm's location and, if possible, determines a Night / Day cycle. A valid Night / Day cycle will delay low battery, fault, and end of unit life chirps during the night until the next Day cycle begins. When chirping begins during the next Day cycle, you can temporarily silence Low Battery or End of Unit Life chirps Life by pressing the Test/Hush button. If a valid Night / Day cycle has not been established because the unit is located in either a constantly dark or lighted location, the chirps mentioned above will not be delayed at night. Moving the unit to a different location might allow the unit to determine a valid Night / Day cycle.

⚠ WARNING: REPLACE UNIT AS SOON AS POSSIBLE WHEN IN END OF UNIT LIFE OR LOW BATTERY MODE.

Peak Level Memory

The Peak Level feature display shows the highest CO reading taken by the CO alarm since its last reset or power up. The Peak Level display feature will display levels between 11-999 PPM. Although the Peak Level feature will display levels below 30 PPM, these levels will not result in an alarm no matter how long the device is exposed to these levels. The Peak Level feature is helpful in identifying if you have had a CO reading since resetting the alarm. Concentrations of CO between 1 and 30 PPM can often occur in normal, everyday conditions. Concentrations of CO below 30 PPM may be an indication of a transient condition that may appear today and never reappear. Some CO conditions may start out as low level leaks but could develop into CO concentrations that may become harmful.

11. Recognizing Nuisance Alarms

Carbon Monoxide (CO) Nuisance

RESET: Pushing the Test/Hush button during CO alarm allows the unit to reset calculations and double check for the presence of CO. If the unit re-alarms within 6 minutes, it is sensing high levels of CO which can quickly become a dangerous situation. Move to fresh air and call 911.

⚠ WARNING: IT IS IMPOSSIBLE TO DETERMINE THE SOURCE OF A CO ALARM USING SIGHT OR SMELL. ALWAYS CONSIDER A CO ALARM EVENT AS DANGEROUS.

12. Battery Backup

This alarm is powered with AC power, but also contains a sealed lithium battery backup system. No battery installation or replacement is necessary for the life of the alarm.

NOTE: AC power must be connected to obtain the full 10 year battery and unit life. Constant exposure to high or low humidity or temperatures may reduce battery life.

NOTE: If AC power is lost, Wi-Fi features (including Indoor Air Quality) will not function, but the backup battery will still provide CO detection.

⚠ WARNING: NO SERVICEABLE PARTS INCLUDED. DO NOT ATTEMPT TO OPEN THE ALARM FOR ANY REASON! Do not try to repair the alarm yourself.

Low Battery

This alarm is equipped with a low battery monitor circuit. If the battery capacity is nearing the point where it can no longer provide adequate power for all alarm functions, the low battery condition will occur. See Troubleshooting Guide. The unit must be replaced within 7 days of the first occurrence of the “Low Battery Warning” to provide continuous alarm detection.

⚠ CAUTION: THE BATTERY 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.

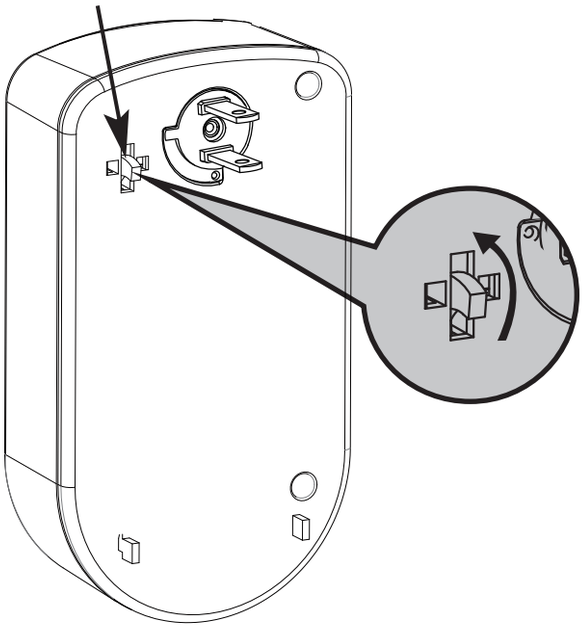
13. Permanently Disable Alarm / Discharge Battery

⚠ WARNING: FAILURE TO DISCHARGE ALARM BATTERY AS INSTRUCTED PRIOR TO DISPOSAL MAY CREATE POTENTIAL FOR LITHIUM BATTERY RELATED FIRE OR HAZARD.

⚠ WARNING: DISCHARGING THE ALARM BATTERY IS PERMANENT

- Once the alarm battery has been discharged, it cannot be reactivated!
- Once discharged, the alarm will NO LONGER DETECT CO OR INDOOR AIR QUALITY.
- Once the alarm battery is discharged, the battery is depleted and the alarm will no longer function.
- Once the alarm battery has been discharged, the alarm cannot be reactivated, and plugging the alarm back into the wall outlet will cause a constant warning chirp.

Discharge Switch



To Permanently Disable Alarm / Discharge Battery:

- Remove unit from wall outlet.
- Locate the discharge switch.
- Push the switch in the direction shown until the switch clicks into place.
- This will disable the alarm, stop the low battery or end of unit life “chirps” and render the alarm safe for disposal by draining the battery.

14. General Carbon Monoxide (CO) Information

Carbon monoxide (CO) is a colorless, odorless, and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

Possible Sources of CO

Inside your home, appliances used for heating and cooking are the most likely sources of CO. Vehicles running in attached garages can also produce dangerous levels of CO. CO can be produced when burning any fossil fuel: gasoline, diesel, propane, natural gas, oil and wood. It can be produced by any fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly, such as: Furnaces/boilers, gas ranges/stoves, gas clothes dryers, water heaters, portable fuel burning space heaters, fireplaces, wood-burning stoves and certain swimming pool heaters. Blocked chimneys or flues, back drafting and changes in air pressure, corroded or disconnected vent pipes, or a loose or cracked furnace heat exchanger can also release CO into your building. Vehicles and other combustion engines running in an attached garage and using a charcoal/gas grill or hibachi in an enclosed area are all possible sources of CO.

The following conditions can result in transient CO situations:

Excessive spillage or reverse venting of fuel-burning appliances caused by 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), negative pressure differential resulting from the use of exhaust fans, simultaneous operation of several fuel-burning appliances competing for limited internal air, vent pipe connections vibrating loose from clothes dryers, furnaces/boilers, or water heaters, obstructions in, or unconventional, vent pipe designs which can amplify the above situations, extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.), temperature inversions which can trap exhaust gases near the ground, car idling in an open or closed attached garage, or near a home.

CO Safety Tips

Every year, have the heating system, vents, chimney and flue inspected and cleaned by a qualified technician. Always install appliances according to manufacturer's instructions and adhere to local building codes. Most appliances should be installed by professionals and inspected after installation. Regularly examine vents and chimneys for improper connections, visible rust, or stains, and check for cracks in furnace heat exchangers. Verify that the color of flame is blue on pilot lights and burners. An amber or orange flame is a sign that the fuel is not burning completely and may be releasing CO. Teach all household members what the alarm sounds like and how to respond. Fire Departments, most utility companies and HVAC contractors will perform CO inspections. Some contractors may charge for this

service. It's advisable to inquire about any applicable fees prior to having the service performed. Kidde will not pay for, or reimburse the owner or user of this product, for any repair or dispatch calls related to the alarm sounding.

Symptoms of CO Poisoning

Initial carbon monoxide poisoning symptoms are similar to the flu with no fever and can include dizziness, severe headaches, nausea, vomiting and disorientation. Everyone is susceptible but experts agree that unborn babies, pregnant women, senior citizens and people with heart or respiratory problems are especially vulnerable. If symptoms of carbon monoxide poisoning are experienced seek medical attention immediately. CO poisoning can be determined by a carboxyhemoglobin test.

The following symptoms are related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household:

1. MILD EXPOSURE: Slight headache, nausea, vomiting, fatigue (often described as "Flu-like" symptoms).

2. MEDIUM EXPOSURE: Severe throbbing headache, drowsiness, confusion, fast heart rate.

3. EXTREME EXPOSURE: Unconsciousness, convulsions, cardio respiratory failure and death.

The above levels of exposure relate to healthy adults. Levels differ for those at high risk. Exposure to high levels of carbon monoxide can be fatal or cause permanent damage and disabilities. Many cases of reported carbon monoxide poisoning indicate that while victims are aware they are not feeling well, they become so disoriented they are unable to save themselves by either exiting the building, or calling for assistance. Also, young children and household pets may be the first affected. Familiarization with the effects of each CO exposure level is important.

15. Cleaning Your Alarm

Your Alarm Should be Cleaned at Least Once a Year

You can clean the interior of your alarm (sensing chamber) by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the perimeter of the alarm. The outside of the alarm can be wiped with a damp cloth. Use only water to dampen the cloth, use of detergents or cleaners could damage the alarm. If the alarm is in Fault mode, the alarm may be in need of cleaning. After cleaning, press the Test/Hush button. If the fault does not clear, the alarm needs to be replaced.

- Never use detergent or other solvents to clean the unit.
- Avoid spraying air freshener, hair spray, or other aerosols near the alarm.
- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect CO and Indoor Air Quality.
- Never attempt to disassemble the unit to clean inside. This action will void your warranty.
- The following substances can affect the CO Sensor and may cause false readings and damage to the sensor: Methane, propane, isobutane, iso-propanol, ethyl acetate, hydrogen sulfide, sulfide di-oxides, alcohol based products, paints, thinner, solvents, adhesives, hair spray, aftershave, perfume, and some cleaning agents.
- Move the Alarm and place in another location prior to performing any of the following:

  Staining or stripping wood floors or furniture

  Painting

  Wall papering

  Using adhesives

Storing the unit in a plastic bag during any of the above projects will protect the sensors from damage. When household cleaning supplies or similar contaminates are used, the area must be well ventilated.

⚠ WARNING: REINSTALL THE ALARM AS SOON AS POSSIBLE TO ENSURE CONTINUOUS DETECTION.

16. FCC

FCC (Contains FCC ID: 2AC7Z-ESPWROOM32UE)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

⚠WARNING! ANY CHANGES OR MODIFICATION MADE TO THE PRODUCT WITHOUT THE PERMISSION OF THE MANUFACTURER COULD VOID THE USER'S AUTHORITY TO USE THIS PRODUCT.

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.

17. Service and Warranty

Ten-Year Limited Warranty

Kidde warrants that the enclosed alarm will be free from defects in material and workmanship or design under normal use and service for a period of ten years from the date of purchase. The obligation of Kidde under this warranty is limited to repairing or replacing the alarm or any part which we find to be defective in material, workmanship or design (part replacement only, no installation), free of charge, upon receiving the alarm with proof of date of purchase, postage and return postage prepaid, to Warranty Service Department, Kidde, 1016 Corporate Park Drive, Mebane, NC 27302. Before shipping the product, follow the steps in the Permanently Disable Alarm / Discharge Battery section.

This warranty shall not apply to the alarm if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate power. Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and fitness for a particular purpose, are limited in duration to the above warranty period. In no event shall the Manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise.

The Manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, smoke, fire or explosion. Since some states do not allow limitations of the duration of an implied warranty or do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply to you. While this warranty gives you specific legal rights, you may also have other rights which vary from state to state.

The above warranty may not be altered except in writing signed by both parties hereto. Your Kidde Alarm is not a substitute for property, fire, disability, life or other insurance of any kind. Appropriate insurance coverage is your responsibility. Consult your insurance agent. Opening the unit will void the warranty.

KIDDE™

QUESTIONS OR FOR MORE INFORMATION

Call Kidde Product Support line at **1-877-542-5471**
or contact us at **www.kidde.com**

Kidde
16 Corporate Park Drive, Mebane, NC 27302

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