TABLE OF CONTENTS
About This Carbon Monoxide Alarm: .........................................1
Specifications and Important Product Information ......................1
Where to Install This CO Alarm .............................................2
How To Install This CO Alarm ................................................3-4
1. Installing an AC With Battery Back-Up Alarm .........................3
2. Interconnecting AC Only and AC/DC Alarms .........................3
If the Alarm Sounds ..........................................................4
Chart: Understanding the LED Lights and Horn Patterns ............5 & 6
Troubleshooting the CO Alarm ..............................................5 & 6
Important Safety Information ..............................................7
Testing and Maintenance .....................................................8
Service and Warranty Information .........................................8
About this Carbon Monoxide Alarm:
This CO alarm is designed to detect carbon monoxide gas. It is NOT designed to
detect smoke, fire, or any other type of gas. If this CO alarm sounds its alarm
horn, DO NOT assume that it is a false alarm. The alarm horn requires your
immediate action.

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

SPECIFICATIONS AND IMPORTANT
PRODUCT INFORMATION
Product Features
• Monthly Self-Test: Approximately every 30 days this alarm performs a silent
  internal system test to verify sensor operation utilizing True Gas Testing. True
  Gas Testing verifies that the CO sensor is nearing the end of its service life.
  Traditional CO alarms test the sensor by simulating an alarm condition electrically.
  This is the first CO sensor that runs a diagnostic test by generating a very small
  and harmless amount of hydrogen gas. If the sensor is working properly, it WILL
  NOT chirp. If the alarm chirps during the monthly self-testing, it is indicating a
  problem with the unit. Refer to the charts on pages 5 and 6 for the appropriate
  actions to take should this occur.

  You must still test the alarm weekly to verify
  proper horn operation.

• Trigger Alarm Locator™ (TAL™): Most interconnect tests trigger all alarm horns
  simultaneously for the duration of the test. This unique system alternates between
  a 10 second ALL ON cycle and a 50 second cycle where only the initiating alarm
  is sounding.

• Alarm Controlled Interconnect Test: In an interconnected system, this feature
  will alarm the local unit first, then quiet the local unit while the remote units alarm.

• Smart Quiet™ Low Battery 1: Allows the homeowners to silence the low battery
  chirp for up to 10 hours, giving them time to go back to sleep and/or purchase a
  fresh replacement battery.

• Smart Quiet™ Low Battery 2: Indicates the battery no longer has enough
  voltage to adequately protect in the event of a power outage or a battery-only
  installation. The Smart Quiet™ feature will no longer silence the chirp.

  THE BATTERY MUST BE REPLACED IMMEDIATELY.

Required Power Supply (Series 10000 and 10400 only):
• This CO alarm requires constant 120-volt, AC power AND/OR a working 9-volt
  battery to operate properly. This alarm WILL NOT work if AC power is not
  connected or has failed or been interrupted for any reason AND the battery is
  removed, drained or improperly connected. DO NOT use any other kind of battery
  except as specified in this manual.
NOTE: AC/DC alarms offer added protection in the event of a power failure or a drained battery.
- Do NOT remove or disconnect the battery or turn off AC power to quiet unwanted alarms. This will remove your protection. This alarm features a Quick Quiet™ False Alarm Control button which, when activated, will quiet unwanted CO alarms for up to 6 minutes.

Installation/Interconnect
- This CO alarm should be installed only by a licensed qualified electrician. Observe and follow all local and national electrical and building codes for installation.
- Unique power connector prevents interconnection with incompatible smoke and combination alarms or security systems.
- This CO alarm may be interconnected with as many as 12 other Firex model FADC, AD, ADC, PAD, G, or TPCI smoke alarms, and as many as 5 Firex model ADH heat alarms or COE and COEA CO alarms for a total of not more than 18 interconnected devices.

WARNING
- Do NOT connect this CO alarm to any other type of smoke, CO, heat, or combination alarm or auxiliary device except those listed in this manual.
- While AC and AC/DC smoke, CO and heat alarms can be interconnected, ONLY when AC power is ACTIVE will ALL units ALARM when one unit senses a hazardous condition. WHEN AC power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, ONLY AC/DC UNITS WILL CONTINUE TO SEND AND RECEIVE SIGNALS AND SOUND AN ALARM IN RESPONSE TO THE PRESENCE OF SMOKE. WHEN power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, AC powered smoke, CO, or heat alarms WILL NOT OPERATE!

Compliance and Proper Applications
- This CO alarm is designed to be used inside a single-family household. In multi-family buildings, each individual living unit should have its own alarm. It is not a substitute for a complete commercial alarm system. It should be used only as supplemental protection in hotels, motels, dormitories, hospitals, nursing homes, or group homes.
- 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.

NOTE: Enclosed with this CO alarm are two labels detailing actions to take in the event of an alarm. One should be placed next to the CO alarm; the other should be placed near a source of fresh air. Please provide the telephone number of the emergency provider and a qualified technician on each label.

WHERE TO INSTALL THIS CO ALARM

WARNING
- Do NOT install CO alarms:
  - Near bathrooms or in shower areas. Steam and aerosol sprays can disable the alarm.
  - In closets, crawlspaces, unused attics, or unheated areas where surrounding air temperatures may go below 40°F (-4°C) or above 100°F (37.8°C).
  - Within five feet of any fuel-burning appliance (stove, kerosene heater, furnace, fireplace, etc.).
  - Within one foot of any wall, corner, or other dead air space.
  - In rooms where chemicals or cleaning supplies are frequently used (paint, hair spray, thinner, etc.). Allow plenty of ventilation in rooms where chemicals are used.
  - Directly above a sink, bathtub or basin.
  - Directly above or below air exchange or heating vents.
  - Behind drapes, furniture, or appliances that could block air flow to the CO alarm.

WARNING
- This unit cannot be used in recreational vehicle applications.

HOW TO INSTALL THIS CO ALARM

This alarm can be mounted and operated in one of three ways:
1. Battery (DC) Only Stand Alone,
2. AC With a Junction Box, and
3. Interconnected AC Only and AC/DC Alarms.
CAUTION
Do not use super glue or silicone caulk on or near the alarm! Fumes from these products can coat and permanently damage the sensor.

Installing a Battery (DC) Only Stand-Alone Alarm
Model COE-B (10200 Series)

1. Remove the mounting plate. Hold the alarm and turn the mounting plate clockwise to separate it from the back of the alarm.
2. Hold the mounting plate against the ceiling or wall in the desired position and use a pencil to trace the mounting holes.
3. Use a 3/16” (5mm) drill bit to drill through the center of the outlines you made in Step 2.
4. Insert screw anchors into the drilled holes. If necessary, gently tap anchors with a hammer until they are flush with the mounting surface.
5. Attach the mounting plate to the mounting surface with the mounting screws provided.
6. Position the alarm on the mounting plate and turn clockwise to lock it into place.
7. Pull out the battery activation strip. The alarm will respond with one yellow light flash.
8. Test the alarm. See “TESTING AND MAINTENANCE” for details.

Installing With a Junction Box
Models COE (10000 Series) and COEA (10400 Series)

DANGER
Never use at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position.

WARNING
This CO alarm should be installed only by a qualified electrician. Carbon Monoxide alarm installation must be in accordance with the requirements of Article 760 of the National Electrical Code and any local codes that may apply.
• Install CO alarm on any 4-inch or single gang junction box only.
  1. From box of CO alarm; remove mounting plate.
  2. Align recessed slots on plate with mounting holes of any 4-inch or single gang junction box.
  3. Gently pull household wires through center hole of plate.
  4. Secure plate to junction box using mounting screws.
  5. With a small wire connector, connect white wire from connector plug to white household wire.
  6. Connect black wire from connector plug to black household wire.
  7. To interconnect alarms, connect yellow wire from connector to interconnect wire between other combination or smoke alarms.
  8. Attach connector plug to pins on back of combination alarm. Plug will only fit one way and will snap into place. Gently tug connector to be sure it is attached securely.
  9. Position the CO alarm to mounting plate and turn clockwise to lock into place.
  10. Turn on power at main fuse box or circuit breaker.
  11. Test CO alarm. See “TESTING THE CO ALARM.”
  12. Model COE only: Activate the battery. Remove arrow tab and close battery door. The yellow light will flash as door is closed.

WARNING
While AC and AC/DC smoke, CO, and heat alarms can be interconnected, ONLY when AC power is ACTIVE will ALL units ALARM when one unit senses a hazardous condition. WHEN AC power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, ONLY AC/DC UNITS WILL CONTINUE TO SEND AND RECEIVE SIGNALS AND SOUND AN ALARM IN RESPONSE TO THE PRESENCE OF SMOKE, CO, OR HEAT, AS DETERMINED BY THE MODEL OF ALARM THAT IS PRESENT. WHEN power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, AC powered smoke, CO, or heat alarms WILL NOT OPERATE.

• Connect CO and smoke alarms to a single dedicated AC branch circuit. If local codes do not permit such a wiring configuration, be sure the neutral wire is common to both circuits or phases.

Installing AC/DC CO Alarms as Replacements with Interconnected Legacy Firex Alarms

Model COE and COEA CO alarms are designed to be used as replacement units for all Firex AC and AC/DC CO alarms with a low voltage interconnect line. All models listed use a 3-wire interconnect system. To interconnect with other models, please call our free technical support line at (800) 445-8299.

• Connect CO and smoke alarms to a dedicated AC branch circuit. If local codes do not permit such a wiring configuration, be sure the neutral wire is common to both circuits or phases.

Installing With a Junction Box
Models COE (10000 Series) and COEA (10400 Series)

ELECTRICAL SHOCK HAZARD. Turn off power at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position.

WARNING
This CO alarm should be installed only by a qualified electrician. Carbon Monoxide alarm installation must be in accordance with the requirements of Article 760 of the National Electrical Code and any local codes that may apply.
• Use #18 AWG minimum solid or stranded wire. When interconnecting, maximum wire length between any two is 1,500 feet #18 AWG or 4,000 feet #14 AWG (20 OHMS loop resistance).
• This CO alarm may be interconnected with as many as 12 Firex model FADC, AD, ADC, PA, or TCPi smoke alarms, and as many as 6 Firex model ADH heat alarms, COE and COEA CO alarms for a total of not more than 18 interconnected devices. DO NOT connect to any other type or model combination smoke, or CO alarm.

WARNING
While AC and AC/DC smoke, CO and heat alarms can be interconnected, ONLY when AC power is ACTIVE will ALL units ALARM when one sensor senses a hazardous condition. WHEN AC power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, ONLY AC/DC UNITS WILL CONTINUE TO SEND AND RECEIVE SIGNALS AND SOUND AN ALARM IN RESPONSE TO THE PRESENCE OF SMOKE, CO, OR HEAT, AS DETERMINED BY THE MODEL OF ALARM THAT IS PRESENT. WHEN power is DISCONNECTED, INTERRUPTED OR NOT PRESENT FOR ANY REASON, AC powered smoke, CO, or heat alarms WILL NOT OPERATE.

• Connect CO and smoke alarms to a dedicated AC branch circuit. If local codes do not permit such a wiring configuration, be sure the neutral wire is common to both circuits or phases.

Installing AC/DC CO Alarms as Replacements with Interconnected Legacy Firex Alarms

Model COE and COEA CO alarms are designed to be used as replacement units for all Firex AC and AC/DC CO alarms with a low voltage interconnect line. All models listed use a 3-wire interconnect system. To interconnect with other models, please call our free technical support line at (800) 445-8299.

Interconnecting AC Only and AC/DC Alarms

• Connect CO and smoke alarms to a dedicated AC branch circuit. If local codes do not permit such a wiring configuration, be sure the neutral wire is common to both circuits or phases.

Installing With a Junction Box
Models COE (10000 Series) and COEA (10400 Series)
IMPORTANT! READ BEFORE INSTALLING THIS CO ALARM WITH EXISTING INTERCONNECTED FIREX ALARMS

In residential homes, there are two ways smoke and CO alarms are hardwire installed and interconnected. One uses 4 wires, the other uses 3 wires. The model COE and COEA CO alarms can be used with both 4 and 3 wire systems.

1. Identify whether the installed system uses 3 or 4 wires to interconnect.
2. If a 4-wire system is installed, change the system to a 3-wire by connecting the independent interconnect wires (yellow and blue) at any point in the system.
3. Smoke alarms generally don’t require any changes (other than replacement every ten years).
4. Replace older CO alarms on the new 3-wire system with COE and COEA CO alarms. These alarms can discriminate between signals coming from a smoke alarm and signals coming from a CO alarm. Older model CO alarms converted to 3-wire systems. So when any alarm is triggered, all the older CO alarms will sound, creating confusion about which danger is actually present.

To Install a CO alarm as a Replacement:

1. Turn off AC power at circuit breaker or main fuse box.
2. Remove old alarm from mounting bracket.
3. Disconnect wire connector from back of unit.
4. Remove wire nuts and connect new wire connector to household wiring. Be certain not to cross the wiring.
5. Connect wire connector to back of alarm.
6. If mounting bracket is the same, reattach alarm to mounting bracket. Feed wiring back through hole in mounting surface.
7. Turn on power at main fuse box or circuit breaker.
8. Test CO alarm. See “TESTING THE CO ALARM.”
9. Model COE only: Activate the battery. Remove arrow tab and close battery yellow light will flash as door is closed.

IF THE ALARM SOUNDS

If Your CO Alarm Sounds (and you are not testing it)

Carbon Monoxide has no taste, feel or smell – but it can be FATAL.

WARNING

IF 1 RED LIGHT IS FLASHING AND THE HORN SOUNDS 4 ALARMS APPROXIMATELY EVERY FIVE SECONDS, IT INDICATES THE PRESENCE OF CO WHICH CAN BE FATAL, YOU MUST QUICKLY DO THE FOLLOWING:

1. Operate Test/Reset button;
2. Call your emergency services [fire department or 911]
3. Immediately move to fresh air – outdoors or by an open door/window. Make certain that all persons are accounted for. Do not reent into 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 your alarm reacts 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 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 manufacturers’ 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.
5. If the CO alarm sounds its alarm horn again, it has sensed CO. This is not a false alarm.

TO TEMPORARILY SILENCE AN ALARM

NOTE: These features temporarily quiet alarms, but do not disable the sensor.

Quick Quiet™ CO Reset

Pushing the Smart Button initiates the CO reset, which quiets all alarms, including the one you touched. This means the unit nearest you triggered the alarm.

Smart Quiet™ Trigger Alarm Locator

These features help you identify the trigger alarm(s) and areas of immediate danger to avoid under alarm conditions. After one minute if a dangerous condition persists all units will go back into alarm: all alarms will sound for 10 seconds, then just the initiating unit will sound for 10 seconds. This 10-second/10-second cycle pattern will keep repeating until the air is cleared and the immediate danger has passed.

MOVE AWAY from areas where you hear trigger alarms sounding if at all possible. DO NOT IGNORE the trigger alarm(s), and be aware that an extremely dangerous situation exists at that location(s) in your home.

Latching LED Alarm Indicator

The Latching LED Alarm Indicator activates automatically, and helps you identify the original trigger alarm(s) in an interconnected series after a smoke or CO event.

CO Alarm - after a CO alarm condition, the single RED light on the triggering alarm(s) blinks 3 times every 10 seconds until manually reset.

Smart Quiet™ for Low Battery Alert

You can silence the Low Battery Alert for up to 10 hours by pressing and releasing the Smart Button. The sensor remains active. This allows you and your family to go back to sleep or give you time to purchase a replacement battery. It is important that you replace the battery as soon as possible to continue your protection!
# UNDERSTANDING THE ALARM

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>HORN</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC power is present</td>
<td>Horn beeps once per minute</td>
</tr>
<tr>
<td>Standby condition</td>
<td>Horn beeps once per minute</td>
</tr>
<tr>
<td>Push-to-Test (Local Test Only)</td>
<td>Horn sounds two quick beeps every minute</td>
</tr>
<tr>
<td>Press-and-Hold (Local and Interconnect Tests)</td>
<td>Horn sounds 4 short tone patterns every 5 seconds</td>
</tr>
<tr>
<td>Smart Quiet™ Low-Battery #1</td>
<td>Horn sounds 4 short tone patterns every 5 seconds</td>
</tr>
<tr>
<td>Smart Quiet™ Low-Battery #2</td>
<td></td>
</tr>
<tr>
<td>Fault condition</td>
<td></td>
</tr>
<tr>
<td>Local CO condition is detected</td>
<td></td>
</tr>
<tr>
<td>Local CO condition is latched</td>
<td></td>
</tr>
<tr>
<td>Quick Quiet™ CO Reset is activated</td>
<td></td>
</tr>
<tr>
<td>Remote signal is received from another CO alarm</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Push and hold Smart Button for at least 5 to 10 seconds if unit does not sound!

**TROUBLESHOOT**

**DANGER** Always turn off power at main fuse box or circuit breaker before taking troubleshooting action.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN light is not on.</td>
<td>1. Alarm may be functioning properly on DC (battery) power if YELLOW light flashes once per minute.</td>
</tr>
<tr>
<td></td>
<td>2. Check AC power supply at fuse box or breaker panel.</td>
</tr>
<tr>
<td></td>
<td>3. Alarm wiring is improperly connected. Have wiring checked by a licensed electrician. Test the alarm.</td>
</tr>
<tr>
<td>Alarm does not sound and lights do not flash when unit is tested.</td>
<td>1. Check that AC power is turned on (GREEN light ON); check that a good battery is inserted correctly in the battery compartment; check that the battery door is tightly closed.</td>
</tr>
<tr>
<td></td>
<td>2. Turn off power. Remove alarm from mounting plate and check that connector plug is securely attached.</td>
</tr>
<tr>
<td></td>
<td>3. Clean alarm (see “Cleaning” on page 8).</td>
</tr>
<tr>
<td>Interconnected smoke, heat, or CO alarms do not sound when Smart Button is pushed to test units.</td>
<td>1. Press and hold the Smart Button longer until the second set of two quick beeps sounds to initiate the remote test.</td>
</tr>
<tr>
<td></td>
<td>2. Check that remote alarms are receiving power and functioning properly.</td>
</tr>
<tr>
<td></td>
<td>4. On DC (battery powered) interconnected alarms, remove alarm from mounting bracket and check that the connector plug is securely attached.</td>
</tr>
<tr>
<td></td>
<td>5. On an interconnected series with both AC and AC/DC powered units, wiring may have been improperly connected. Have wiring checked by a licensed electrician. Test all alarms in the series.</td>
</tr>
</tbody>
</table>
LED AND HORN PATTERNS

<table>
<thead>
<tr>
<th>LIGHTS</th>
<th>SMART BUTTON KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN light On</td>
<td>Quick push activates a local Push-to-Test sequence</td>
</tr>
<tr>
<td>YELLOW light blinks 4 times right after horn sounds.</td>
<td>Press and HOLD button. The system will perform a single local test cycle.</td>
</tr>
<tr>
<td>RED blinks 4 times right after horn sounds.</td>
<td>Press and RELEASE button before you hear the third chirp. The system will perform a single local test cycle.</td>
</tr>
<tr>
<td>YELLOW light flashes 2 times per minute after horn beeps</td>
<td>Quick press will eliminate the low-battery warning for about 10 hours</td>
</tr>
<tr>
<td>YELLOW light flashes constantly after horn beeps</td>
<td>Quick press activates CO Reset</td>
</tr>
<tr>
<td>RED blinks 4 times right after horn</td>
<td>Quick press erases the CO latched signal</td>
</tr>
<tr>
<td>RED light flashes 3 times every 10 seconds</td>
<td>Quick press activates Smart Quiet™ Trigger Alarm locator for Model COE and COEA alarms.</td>
</tr>
<tr>
<td>YELLOW light flashes 3 times per minute after horn beeps</td>
<td>Smart Button WILL NOT silence the low battery chirp! Replace battery immediately!</td>
</tr>
<tr>
<td>YELLOW light flashes 2 times per minute after horn beeps</td>
<td>Press to check the alarm again. Replace alarm if it remains in the fault condition.</td>
</tr>
<tr>
<td>Red light flashes 1 time every 10 seconds</td>
<td>Press and HOLD button. The system will perform a single local test cycle, then repeat the interconnect test until you release the button.</td>
</tr>
<tr>
<td>SMART BUTTON KEY</td>
<td></td>
</tr>
<tr>
<td>Press and RELEASE button before you hear the third chirp. The system will perform a single local test cycle.</td>
<td></td>
</tr>
<tr>
<td>Press and HOLD button. The system will perform a single local test cycle, then repeat the interconnect test until you release the button.</td>
<td></td>
</tr>
<tr>
<td>Quick press will eliminate the low-battery warning for about 10 hours</td>
<td></td>
</tr>
<tr>
<td>Quick press activates CO Reset</td>
<td></td>
</tr>
<tr>
<td>Quick press erases the CO latched signal</td>
<td></td>
</tr>
<tr>
<td>Quick press activates Smart Quiet™ Trigger Alarm locator for Model COE and COEA alarms.</td>
<td></td>
</tr>
</tbody>
</table>

WARNING: DO NOT disconnect the battery or AC power to quiet an unwanted alarm. This will remove your protection. Use Quick Quiet™ False Alarm Control by pushing the Smart Button.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The alarm beeps once a minute and YELLOW light flashes.</td>
<td>Take Emergency Safety Actions in all alarm situations! If no hazard proves to be present: Test the alarm to check for proper functioning. Clean the alarm. [See TESTING AND MAINTENANCE] Check that the alarm is placed properly. [See AGENCY RECOMMENDATIONS FOR ALARM PLACEMENT]</td>
</tr>
<tr>
<td>The alarm is operating properly. The Firex patented Horn Ramp-Up feature lets you start the test sequence and move away from the unit before the full alarm horn sounds.</td>
<td>The battery needs to be replaced. Turn off power and replace the battery. [See &quot;REPLACING THE BATTERY&quot; in &quot;TESTING AND MAINTENANCE&quot;] Push the Smart Button to temporarily quiet the low battery signal for 10 hours.</td>
</tr>
<tr>
<td>Horn beeps twice a minute and YELLOW light flashes.</td>
<td>Push the Smart Button to allow alarm to reset and self test. If fault signal continues, alarm is no longer providing protection and must be replaced.</td>
</tr>
</tbody>
</table>

For Technical Support:
PH: (800) 445-8299
Email: technical.service@invensys.com
Website: www.icca.invensys.com/firex
CO Home Safety Tips

CO poisoning is often caused by equipment failures due to poor maintenance, prod-
uct defects, and damaged parts. The following tips can help prevent CO within your home:

1. Have all fuel-burning appliances inspected and cleaned yearly by a qualified serv-
ic technician. The furnace, water heater, and stove are some of the
leading sources of CO.

2. Clean fireplace vents and chimney regularly. A blocked chimney could cause a
backdraft of CO into the home. Do not seal chimney. This will cause a
backdraft of CO into the home.

3. Do not seal a draft hood or exhaust vent to any appliance. This will trap
dangerous CO inside the house.

4. Do not use liquid propane (LP) or charcoal grills or operate any gasoline
powered equipment indoors.

5. Allow for plenty of ventilation when using a kerosene heater. Do not use in
small areas.

Preventive maintenance, common sense, and a CO detection device are some of the
best methods of preventing CO poisoning. However, a dangerous situation can
happen to anyone at any time.

The following list illustrates some danger signs of CO presence.

1. Soot and dirt build-up seeping out of chimney or other exhaust vents.

2. A mostly yellow (rather than clear blue) burner flame or pilot flame in gas appliances.

3. A draft of air coming from an appliance, chimney, or vents.

4. Car idling in an open or closed attached garage, or near a home.

If you have flu-like symptoms or suspect CO poisoning, seek medical
assistance immediately!

Symptoms of Carbon Monoxide Poisoning

CO poisoning has many symptoms. Some are very similar to the flu, the affects
of intoxication, or drug usage. In many CO cases, people feel ill and stay home to
rest. This only compounds the CO poisoning because they stay in the home where
CO is present.

As CO levels rise, the symptoms become more extreme. At low levels people will
suffer headaches and mild nausea. At higher levels unconsciousness, heart failure,
and even death can occur. The following symptoms are related to CARBON MONOX-
IDE 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.

The important factor with any CO poisoning, however, is time. At high levels, CO can
cause death in just minutes. At lower levels, it could take from hours to days of con-
stant CO exposure to have the same life-threatening effect.

The chart below illustrates the symptoms of CO poisoning by concentration of CO and its
effect over time.

Conditions That Can Cause CO Levels to Change

The following conditions can result in transient CO situations in the home.

1. Excessive spillage or reverse venting of fuel burning appliances caused by
outdoor ambient conditions, such as:
   a. Wind direction and/or velocity, including high gusts of wind. Heavy air in the
      vent pipes or venting system (air from outdoors that is not circulated by
      the appliance).
   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 connections vibrating loose from clothes dryers, furnaces, or
      water heaters.
   e. Obstruction in the vent pipe or unconventional vent pipe designs which can
      amplify or reverse flows.

2. Extended operation of unvented fuel burning devices (range, oven, fireplace, etc.).

3. Temperature inversions which can trap exhaust gasses near the ground.

4. Car idling in an open or closed attached garage, or near a home.
TESTING AND MAINTENANCE
Testing
• Stand-alone units: Test each alarm regularly to be sure it is operating properly.
• Interconnected units: Test each alarm in an interconnected system regularly.
• The Smart Button accurately tests all functions. DO NOT use an open flame to test this CO alarm. You may ignite and damage the smoke alarm or your home.
• Test alarms weekly and upon returning from vacation or when no one has been in the household for several days.

IMPORTANT! Refer to “Understanding the Alarm LEDs and Horn Patterns” chart so you understand how to tell if your alarm is operating properly.

Maintenance and Care

DANGER
ELECTRICAL SHOCK HAZARD. Turn off power at main service panel by removing fuse or switching appropriate circuit breaker to OFF position BEFORE cleaning CO alarm or replacing the battery.

Cleaning
IMPORTANT: Do not attempt to remove the cover or clean inside the alarm. THIS WILL VOID YOUR WARRANTY. Clean the cover at least once a month using the soft brush or wand attachment to a vacuum cleaner. Be sure all the vents are free of debris. If necessary, use a damp cloth to clean residue off. Do not use abrasive cleaners or spray the alarm with cleaning agents or waxes, especially cleaners containing ammonia. These liquids may impair the performance of sensors. Do not submerge the alarm in water.

Replacing the Battery (Model COE and COE-B)
Replace the battery at least once a year or immediately when the low battery warning activates. If a replacement battery is not immediately available, push the Smart Button to silence the Low Battery Warning for approximately 10 hours. If alarm does not silence, replace the battery immediately.

WARNING
Use only Eveready 522, Duracell MN 1604 or Ultrafite U9VL-J batteries! DO NOT USE ANY OTHER TYPE OF BATTERY. DO NOT USE RECHARGEABLE BATTERIES. Refer to the Installation section if you are not familiar with the proper way to install a new battery.

WARRANTY INFORMATION
5-YEAR LIMITED CO ALARM WARRANTY
Invensys Controls Americas warrants to the original consumer purchaser each new CO alarm to be free from defects in material and workmanship under normal use and service for a period of five (5) years from the date of purchase. Invensys Controls Americas agrees to repair or replace, at its option, any defective CO alarm provided it is returned with postage prepaid and with proof of purchase date to Invensys Controls Americas. This warranty does not cover damage resulting from accident, misuse or abuse or lack of reasonable care of the product. This warranty is in lieu of all other express warranties, obligations or liabilities. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO A PERIOD OF FIVE (5) YEARS FROM THE DATE OF PURCHASE FOR THE CO ALARM. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. IN NO CASE SHALL INVENSYS CONTROLS AMERICAS BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY ITS NEGLIGENCE OR FAULT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state. This product meets all the requirements of U.L. Standard 2034.

Where to send your alarm for service
Not attempt to repair this combination alarm. Doing so will void your warranty. If the alarm is not operating properly, see “Troubleshooting.” If you must return an alarm under warranty, send the alarm in a well-padded envelope with postage prepaid, a note describing the nature of the difficulty, and proof of date of purchase to:

In U.S.: Invensys Controls Americas 28C Leigh Fishor Blvd. El Paso Texas 79906 United States of America
In Canada: Invensys Controls Americas Service de réparation 3505 Laird Road - Unit #14 Mississauga Ontario L5L 5Y7

If the CO alarm is no longer under warranty, has a licensed electrician replace the CO alarm immediately with a comparable Firex brand alarm.

For Technical Support:
Phone: (800) 445-8299
Email: technicalservice@invensys.com
Website: www.icca.invensys.com/lex

invensys.
Controls Americas
191 E. North Avenue
Carol Stream Illinois 60188
©2006 Invensys Controls Americas
110-1125C Eng 2/22/06 11:32 AM Page 8