Smoke/CO Alarm

With Monox Technology

• Get Advance Warning of Two Hazards: Smoke and CO

• Monox® True-Test™ Sensor – Automatically Verifies Sensor

• Interconnect Test – Initiating alarm sounds separately from interconnected alarms

• Ionization Smoke Detector Technology

The NEW 12000 Smoke/CO Combo

SMOKE & CARBON MONOXIDE ALARM

Fully Interconnectable with MOST Firex Smoke, CO and Heat Alarms for Quicker Response Time
Combination Smoke/Carbon Monoxide Alarms provide a single installation and double the protection.

Two Deadly Threats
Fire and Carbon Monoxide (CO) represent two of the major threats to the health and lives of homeowners and their families. Fire and smoke are often visible, providing occupants with a warning of their presence. CO on the other hand, issues no warning signs. It is odorless and can build up very slowly over time. Often families become sick without even knowing the cause.

Firex Advantage
Firex® 12000 combination alarms monitor both smoke and CO emissions. Electrical contractors can easily satisfy most building requirements for fire and CO protection with a single unit, reducing installation costs. Smart Interconnect Wiring allows the Firex 12000 to be connected to additional smoke alarms and CO alarms on a single interconnect wire eliminating the need for additional wiring and providing whole-house protection.

The Choice of Professionals
Firex offers everything professionals demand: quality, reliability, a complete product line, technological innovation, easy installation, user-friendly design, and in-depth product and application knowledge. We’re here to help you get the job done right. That’s the Firex advantage.

Features and Benefits of the Firex 12000 Series
EXCLUSIVE Monox® Sensor with True-Test™ Sensor Diagnostics – Verifies that carbon monoxide sensor is working properly, and warns when the sensor is nearing the end of its service life.
EXCLUSIVE Monthly Self-Test – Alarm performs a silent internal system test to verify sensor operation.
EXCLUSIVE Interconnect Test – In an interconnected system, this feature will alarm the local unit first, then quiet the local unit while the remote units alarm.
Fast, Easy Installation – Smoke and CO alarms share a single Smart Interconnect wire, eliminating time-consuming additional wiring.
Single Installation with Double Protection – One alarm provides protection from smoke and carbon monoxide
Front Loading Battery Door – Eliminates battery handling during installation and allows for safe and convenient battery replacement.
Battery Pull Tab – Makes installation faster and easier, reducing callbacks due to battery failure. Simply pull tab, close door and press test button.
Latching LED Alarm Indicator – A red LED flashes until reset for quick, clear identification of the initiating smoke or carbon monoxide alarm in an interconnected system.
Smart Quiet™ Trigger Alarm Locator – Pushing test button quiets all alarms EXCEPT the one that triggered the alarm.
Smart Quiet™ Low Battery Silencer – Silences low battery alert up to 10 hours.
Quick Quiet™ False Alarm Control™ – Quiets unwanted alarms for up to six minutes.
Dust Cover – Eliminates nuisance callbacks and false alarms by protecting alarm from dust, dirt, fumes or other common contaminants during construction.
Firex® Compatible – Interconnects with most Firex smoke, heat and CO alarms. (See Technical Specifications section for interconnectable Firex units.)
Dual Ionization Smoke Chamber – Detects fast-burning or smoldering fires.
Ramp-Up Horn – Protects your hearing when testing the alarm by building up the decibel level slowly, giving you time to move away from the horn before the full alarm sequence begins.
DANGERS OF CARBON MONOXIDE

The Silent Killer  Carbon Monoxide (CO) is the #1 cause of accidental poisoning deaths in the United States. CO claims approximately 480 lives and sends another 15,200 people to hospital emergency rooms for treatment annually. It has no smell, no taste, and no color, which is why CO has been called “The Silent Killer” because it gives no overt warning . . . until after it's too late!

EVERY home is at risk!  Even new appliances can produce elevated levels of CO under certain conditions. And new energy-efficient construction is more likely to trap CO inside where, over time, it can build to potentially dangerous levels.

CO can be caused by any of these common occurrences:
- Car left running in the garage
- Gas or wood-burning fireplace
- Furnaces and boilers
- Water heater vent pipes
- Portable kerosene or gas heaters
- Operating a charcoal or gas grill indoors
- Kitchen ranges
- Clogged chimneys

How do Firex CO Alarms work?  Carbon monoxide poisoning often occurs gradually, accumulating in the blood stream causing sickness (and possibly death). Because people can’t see, smell or taste CO, the Firex 12000 Combo continuously monitors CO levels, and alarms when it detects potentially dangerous conditions . . . whether CO levels rise quickly or build slowly over time.

Benefits of the Firex Smoke/CO Combo: Added Safety and Increased Profits.  The Firex 12000 not only protects against potential CO poisoning, but at the same time guards against smoke and fire danger.  A single device is more attractive in the home, is easier and less-expensive to install than multiple units; yet provides additional protection for the homeowner.

INTERCONNECTABILITY

The Firex® 12000 Smoke/CO Alarm is an AC/DC and DC-only alarm that will easily interconnect with other Firex alarms—in both new construction or retrofit situations—with no new wiring or brackets.

Firex 5000, 4618, 4518, 4671, 406 Ionization Smoke Alarms
Firex 4480, 480 and 484 Photoelectric Smoke Alarms
Firex 5700 Heat Alarms
Firex 10000 Carbon Monoxide Alarms

COMBO ALARMS

A combination Smoke/CO Alarm makes it easy to provide both types of protection throughout the home. A combination alarm installed on every level of the home is an excellent way to ensure maximum protection for occupants, with minimal installation effort.
Architectural Specifications

The 12000 Smoke/CO alarm shall be powered by a 120 VAC, 60 Hz with a 9 volt battery back-up. 100% solid state circuits shall operate over an input range of 100-130 VAC. This alarm shall be rated at no greater than 0.06 amp in standby. Operating temperature shall be between 40°F to 100°F (4.4°C to 37.8°C) and relative humidity between 15%-95%. Item 12000 shall operate independently or is interconnected with as many as 11 other smoke alarms and a combination of up to 6 carbon monoxide, or 6 heat alarms for a total of 18 units. The 12000 can share the interconnect wire of smoke, carbon monoxide and heat alarms. The alarm will automatically sound a smoke alarm signal if smoke is detected by this unit or any other interconnected smoke alarm, even if the unit is already detecting carbon monoxide and sounding the carbon monoxide alarm signal. The alarm shall have a “quick connect” molded harness and separate mounting brackets are included with these units to allow surface, junction box or octagon box installation. This Firex Smoke/CO alarm uses an electrochemical CO sensor and dual chamber ionization sensor that emits 85 decibels at 10 feet. The built-in red LED provides indication of alarm, mode and latching alarm indication. A green LED shall indicate AC power ON when present. The amber LED flash is accompanied by two quick horn beeps per minute when unit is not functioning properly and needs replacement. The unit performs a silent internal system test to verify CO sensor and associated electronics monthly. The 12000 Smoke/CO alarm shall be powered by a 120 VAC, 60 Hz maximum. Not compatible with 7000 (model FADCQ) and 6045 (model COQ8).

Technical Specifications

Product Weight 11 oz.
Operating Temperature 40°F to 100°F (4.4°C to 37.8°C)
Interconnect Quantity Up to 18 Firex devices maximum; Firex smoke alarm items 12000 (model FADCM), 5000 and 4618 (model FADC), 4518 (model ADC), 4418 (model AD), 4580 (model PAD), 4871 (model TPCI), 406 (model G), Firex heat alarm 5700 (model ADH), Firex CO alarm 10000 (model COE) (up to 6 heat and CO alarms maximum). Not compatible with 7000 (model FADCQ) and 6045 (model COQ8).
Electrical Rating 120V AC, 60 Hz, 60mA max.
Horn Output 85 decibels at 10 feet
Listing UL 217 / UL 2034
Detection Type Electrochemical / Dual Ionization Chamber
Humidity Range 15% to 95% relative humidity

Installation of Smoke / Carbon Monoxide Alarm

Smoke/CO alarms should be installed in accordance with any local codes that apply.

To install the 12000, use minimum wire size of #18 AWG solid or stranded wire or what meets your local code. When interconnecting, maximum wire length between any two is 1,500 feet for #18 AWG or 4,000 feet for #14 AWG (20 OHMS loop resistance).

The 12000 may be interconnected with as many as 11 other Firex smoke alarms and 6 Firex heat alarms or CO alarms for a total of not more than 18 interconnected devices. This Smoke/CO alarm may be interconnected with Firex smoke/co alarm item 12000 (model FADCM), Firex smoke alarm items 5000 and 4618 (model FADC), 4518 (model ADC), 4418 (model AD), 4580 (model PAD), 4870 (model TPCI), Firex heat alarm 5700 (model ADH), Firex CO alarm 10000 (model COE), (up to 6 heat and CO alarms max). DO NOT connect with any other model CO, Smoke/CO combo, smoke or heat alarms. This alarm can share the interconnect wire of smoke and heat alarms. The alarm will automatically sound a smoke alarm signal if smoke is detected by this unit or any other interconnected smoke alarm, even if the unit is already detecting carbon monoxide and sounding the carbon monoxide alarm signal. Connect Smoke/CO alarms to a single AC branch circuit.

Ordering Data

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<thead>
<tr>
<th>Item No.</th>
<th>Model No.</th>
<th>Agency Listing</th>
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<tbody>
<tr>
<td>12000</td>
<td>FADCM</td>
<td>UL</td>
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