



Battery Operated Wireless Interconnect Combination Carbon Monoxide, Fire & Smoke Alarm

Part Number 900-0225

Model KN-COSM-B-RF

Wireless Interconnect

Interconnect without wires – when one alarm sounds they all do.

Voice Alarm

Announces the hazard type detected.

Test/Reset Button

Tests alarm circuitry and triggers the voice announcement.

LEDs

Two LEDs are provided. Flashing green for normal operation and flashing red for alarm condition.

Peak Level Memory

Alerts user when the unit has detected CO concentrations of 100ppm or higher.

Alerts user to replace after 10 years of operation



Description

The Kidde KN-COSM-B-RF Combination Smoke & Carbon Monoxide Alarm provides two important safety devices in a single unit. This alarm includes a voice warning system that announces “Fire”, “Warning, Carbon Monoxide”, “Low Battery”, and “Caution, Carbon Monoxide Previously Detected.” The voice alarm eliminates any confusion and clearly warns you and your family of a smoke or carbon monoxide danger, or if your battery is in need of replacement.

This alarm can be installed as a single unit, or in a multiple station configuration that will enable wireless communication with the other alarms in the case of a smoke or CO event.

Installation of the interconnect system is quick and easy, and avoids the hassle of extensive wiring and labor. Per NFPA guidelines, the interconnected system should not exceed the limit of 12 smoke alarms, or 24 total devices.

This alarm uses ionization sensing technology. Leading authorities recommend that both ionization and photoelectric smoke alarms be installed to help insure maximum detection of the various types of fires that can occur within the home. Ionization sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms.

Features and Benefits

- **Wireless Communication** – Offers the safety benefits of an interconnected system without having to run new wiring.
- **Voice Alarm** – Announces the hazard type thereby helping to speed up the correct reaction to the hazard detected. Alarm announces “Fire!” when a smoke or fire hazard is detected and announces “Warning Carbon Monoxide” when a CO hazard is detected.
- **Combined Carbon Monoxide and Smoke Alarm** – A single unit can be installed where previously, two were needed. Reduces installation time and helps to keep home décor attractive.
- **Peak Level Memory** – If the alarm has detected a CO level of 100ppm or higher, the unit will announce “Carbon Monoxide Previously Detected” to warn of the CO incident, when the Test/Reset button is pressed.
- **Silent Mode Feature** – Temporarily silences nuisance alarms.
- **Test/Reset Button** – Tests alarm circuitry and triggers the voice announcement.
- **LEDs** – Flashing green for normal operation and flashing red for alarm condition.
- **Battery Powered** – Provides protection even during power outages when many fire and carbon monoxide incidents occur.
- **Low Battery Silence** – Disable low battery chirp for 10 hours without disconnecting power from alarm
- **Ionization Smoke Alarm Sensor**
- **UL Listed**



Architectural and Engineering Specifications

The combination smoke and carbon monoxide alarm shall be Kidde Model Number KN-COSM-B-RF (Part number 900-0225) or approved equal. It shall be powered by three (3) AA batteries. The unit shall incorporate an ionization sensor with nominal sensitivity of 0.89%/ft +/- 0.19%/ft. The CO sensor shall be of a fuel cell design and provide accuracy of +/- 20% + 15ppm. The temperature operating range shall be between 40°F and 100°F (4°C and 38°C) and the humidity operating range shall be 10% to 85% relative humidity, non-condensing.

The combination alarm can be installed on the surface of any wall or ceiling following the UL/NFPA/Manufacturer's recommended placement guidelines. The alarm shall include a test button that will electronically simulate the presence of smoke and CO and cause the unit to go into both modes of alarm. This sequence tests the unit's electronics to ensure proper operation.

The combination alarm shall have two methods of warning for danger: a piezoelectric horn that is rated at 85 decibels at 10 feet and a voice warning that identifies the danger. For a CO incident, the horn will sound in the repetitive manner – four (4) fast beeps, a short pause, four (4) fast beeps, a short pause. In between, the unit will announce "Warning Carbon Monoxide!" In a smoke incident, the horn will sound in the repetitive manner – three (3) beeps, a pause, three (3) beeps, a pause. In between, the unit will announce "Fire!" The smoke alarm takes precedence when both smoke and CO are present.

The CO sensor will not alarm to levels of CO below 30 ppm and will alarm in the following time range when exposed to the corresponding levels of CO.

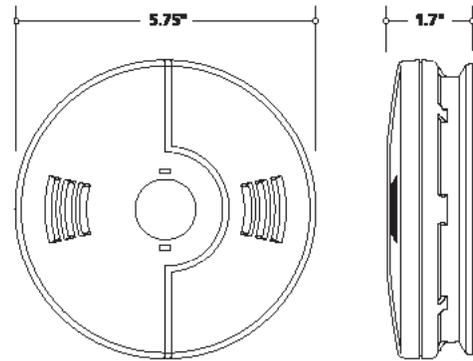
70 ppm CO Concentration	60 – 240 minutes
150 ppm CO Concentration	10 – 50 minutes
400 ppm CO Concentration	4 – 15 minutes

The unit shall also indicate a low battery warning utilizing each of the following methods: a brief alarm chirp, the voice announcement of "Low Battery!" and the red LED will flash once per minute. The unit shall incorporate two LEDs. A green LED will flash every 60 seconds in standby condition. A red LED will flash during smoke or CO alarm, and in error mode.

The unit shall at a minimum meet the requirements of UL 2034, UL 217, NFPA 72, NFPA 720, The State of California Fire Marshal, NFPA 101 (One and two family dwellings) Federal Housing Authority (FHA), Housing and Urban Development (HUD). It shall also include a 10-year manufacturer's limited warranty.

Technical Specifications

Model:	KN-COSM-B-RF
Power Source:	3 AA Battery
Sensors:	Smoke: Ionization, CO: Electrochemical
Audio Alarm:	85dB at 10ft
Temperature Range:	40°F (4°C) to 100°F (37°C)
Humidity Range:	10%-85% relative humidity, non-condensing
Size:	6" L x 6"W x 1.75"D
Weight:	1.75 lb.
Interconnects:	Up to 24 devices (of which 12 can be smoke alarms)



Ordering Information

Ordering Number	UPC	1 2 of 5	Pack Config	Pack Qty	Dimensions (w x d x h inches)	Weight	Cartons/Pallet
21010625	0-47871-10625-7	100-47871-10625-4	Clam	Cut Case (3 Units)	7.94 x 9.5 x 11.75	7	75



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