Intelligent Alarm — Battery Operated Combination Smoke & Carbon Monoxide Alarm

Part Number 900-0216A   **Model KN-COSMXTR-BA**

Voice Alarm
Announces the hazard type detected.

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

Single Test/Reset and Hush™ Button
Tests alarm circuitry and triggers the voice announcement. Temporarily silences nuisance alarms.

Front Load Battery Door
Replace the 2 AA batteries without disconnecting from mounting bracket.

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

Alerts user to replace CO alarm after 10 years of operation

NIGHTHAWK™ TECHNOLOGY
World's Most Accurate Carbon Monoxide Alarm*

Description

The Kidde 900-0216A uses breakthrough technology to offer a fast response to real fires, including smoldering and fast-flaming, as well as protect you from carbon monoxide and dramatically reduce the chance of nuisance alarms. In addition, the Intelligent Alarm contains a voice warning that clearly states the present danger – smoke or carbon monoxide – and announces "FIRE!" or "WARNING! CARBON MONOXIDE!" The Intelligent Alarm combines the detection capabilities of an ionization smoke sensor – which is more likely to detect smaller, less visible fire particles, like those produced by flaming fires – with that of an electrochemical sensor, which is used to detect CO. Since carbon monoxide is present in all fires, having both detection chambers work together in one alarm is a breakthrough in the fire safety industry. When either sensor notices a potential hazard, it will communicate with the other. Depending on what is detected, the alarm will adjust its smoke sensitivity in order to better discriminate between a real hazard and a false one. This constant communication enhances the alarm's overall performance in all fires, and significantly reduces the potential for a nuisance alarm.

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.

Alarm Warnings

Fire: The red LED will flash and be accompanied by three long alarm beeps followed by a verbal warning message "FIRE!". The alarm pattern will repeat until smoke is eliminated.

Carbon Monoxide: Four short alarm beeps followed by a verbal warning "WARNING! CARBON MONOXIDE!" This continues until the unit is reset or the CO is eliminated.

Low Battery: If any form of battery failure is detected the red LED light will flash and the unit will "chirp" once every 60 seconds

for at least 7 days. The "LOW BATTERY" voice occurs once every 15 minutes.The green LED will also be flashing twice per second.

Voice Hush Indication: "HUSH MODE ACTIVATED" and "HUSH MODE CANCELLED" voice announcement.

Peak Level Memory: If the alarm had 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.

Features and Benefits

- **Voice Alarm** – Announces the hazard type detected thereby helping to speed up the correct reaction to the hazard detected. Alarm announces "Fire 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.

- **Test/Reset Button** – Tests alarm circuitry and triggers the voice announcement.

- **LEDs** – Flashing green for normal operation and flashing red for alarm condition.

- **Low Battery Warning** – The unit warns of a low battery condition by announcing "low battery" and by initiating an alarm chirp and activating a flashing red LED.

- **Battery Powered** – Provides protection even during power outages when many fire and carbon monoxide incidents occur.

- **Battery Safeguard** – The battery door will not close unless the batteries are properly installed.

- **Hush® Feature** – Temporarily silences nuisance alarms.

*Based on accuracy claims of major manufacturers

SIGNALING **UL® LISTED**

10 YEAR LIMITED WARRANTY

Architectural and Engineering Specifications

The combination smoke and carbon monoxide alarm shall be Kidde Model Number KN-COSMXTR-BA (part number 900-0216A) or approved equal. It shall be powered by 2 AA batteries. The unit shall incorporate an ionization smoke sensor with nominal sensitivity of 0.97 %/ft. The CO sensor shall be of a fuel cell design and shall meet the sensitivity requirements of Underwriter's Laboratory's UL 2034 single and multiple station carbon monoxide alarms. 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% - 95% 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 provide optional tamper resistance that deters removal of the unit from the wall or ceiling.

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 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.

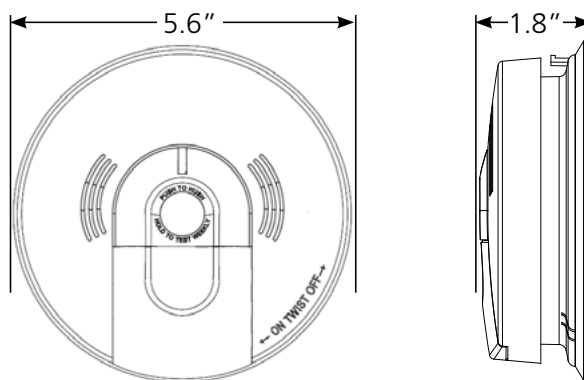|	
70 ppm CO Concentration	60 – 240 minutes
150 ppm CO Concentration	10 – 50 minutes
400 ppm CO Concentration	4 – 15 minutes

The 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 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 2 LED's. 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, UL217, NFPA72, (chapter 11 2002 edition) The State of California Fire Marshall, NFPA101 (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

Unit Number:	900-0216A
Model:	KN-COSMXTR-BA
Power Source:	2 AA Batteries
Sensors:	Smoke: Ionization, CO: Electrochemical
Audio Alarm:	85dB at 10ft
Temperature Range:	40°F (4.4°C) to 100°F (37.8°C)
Humidity Range:	10%-95% relative humidity, non-condensing
Size:	5.6" in diameter x 1.8" depth
Weight:	13oz
Interconnects:	No

Ordering Information

Ordering Number	UPC	I 2 of 5	Pack Config	Pack Qty	Dimensions (w x d x h inches)	Weight	Cartons/ Pallet
21007450	0-47871-07450-1	100-47871-07450-8	CLAM	Cut Case (4 Units)	7.94 x 9.5 x 11.75	7	75
21007833	0-47871-07450-1	200-47871-07450-5	CLAM	Display (24 Units)	16.9 x 22 x 24.2	45.1	4
21008700	0-47871-08700-6	100-47871-08700-3	BOX	Master Pack (6 Units)	6.25 x 13.25 x 6.25	10.75	126

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