

## SMOKE & CARBON MONOXIDE ALARM

9V BATTERY POWERED

**One Alarm  
That Provides Protection  
Against Two Deadly Threats!**



## Features

Battery Powered

Combined Carbon Monoxide Alarm and Smoke Alarm in one unit

Single Test/Silence Button

Permanent Smoke and Carbon Monoxide Sensors

Battery Status Indicator

Separate Alarm Status Indicators

Different Horn Pattern Sounds

Service Status Indicator

Loud 85dB Alarm Horn

9V Alkaline Battery Included

Listed with Underwriters Laboratories, Inc. Standards:

Single and Multiple Station Carbon Monoxide Detectors UL 2034

Single and Multiple Station Smoke Detectors UL217

## Benefits

Works even during a power outage.

Alerts you of elevated carbon monoxide levels and provides an early warning of smoke from fire.

Minimizes the number of CO Alarm and Smoke Alarm Units in the home or residence.

Tests all functions by electronically simulating the presence of smoke and CO.

Silences the alarm while the occupant(s) respond. If significant levels of smoke and/or CO are present after the initial silence period, or if levels continue to rise, the alarm will alarm again.

Lasts the life of the unit.

Alerts you when the battery is low and needs to be replaced.

Makes it easy to determine which alarm has been triggered.

Flashes yellow when the CO alarm needs service or replacement.

# Cat. No. SC1000B

# SMOKE & CARBON MONOXIDE ALARM 9V BATTERY POWERED

## APPLICATION

BRK Electronics Model SC1000B is a 9V battery operated single station Combination Smoke & Carbon Monoxide (CO) Alarm specifically designed for residential and institutional applications including single family homes, multifamily homes, sleeping rooms of hospitals, hotels, motels, dormitories, and other mixed occupancy dwellings as defined in standard NFPA 101. Model SC1000B has been fully tested and complies with Underwriters Laboratories, Inc. Single and Multiple Station Carbon Monoxide Detectors UL 2034, with Underwriters Laboratories, Inc. Single and Multiple Station Smoke Alarms UL 217, the California State Fire Marshal, and with model building codes published by ICBO, SBCCI, BOCA and CABO.

Model SC1000B combines Smoke Alarm and CO Alarm technologies in one unit. As a Carbon Monoxide alarm, Model SC1000B measures CO levels in the air and alerts the occupant(s) to a potentially dangerous build-up of CO over time. It will alarm if CO levels rise quickly (if the heat exchanger on a furnace breaks, for example), or if CO is consistently present (a slow CO leak on a fuel-burning appliance). The unit measures CO levels by passing an infrared beam of light through two self-restoring sensor discs to a photo-sensitive receiver. The sensor discs darken when exposed to CO. When exposed to potentially dangerous levels, the sensor discs block the beam of light triggering an 85dB alarm. The unit is designed to alarm before 10%COHb exposure at levels of 30% to 70% Relative Humidity (RH) as required by Underwriters Laboratories, Inc. Single and Multiple Station Carbon Monoxide Detectors UL 2034. It has been tested to alarm at the following exposures: 400 ppm CO before 15 minutes, 200 ppm CO before 35 minutes, 100 ppm CO before 90 minutes. This CO Alarm is not designed to detect CO levels below 15ppm typically.

As a Smoke Alarm, Model SC1000B provides early warning of fire when smoke reaches its Ionization Sensor Chamber. The sensor consists of two electrically charged plates and a source of Americium 241 to ionize the air molecules in the space between the plates. As particles of combustion enter the ionization chamber, they collide and combine with ionized air molecules resulting in a decrease in current between the two plates. Electronic circuitry monitors the change in current. When smoke inside the chamber reaches a threshold level the unit triggers an audible alarm.

Model SC1000B features four colored indicator lights and an 85dB alarm horn for alarm notification. A flashing green LED indicates the unit is receiving power; flashes yellow when battery is low. For easy alarm identification "Flame" and "CO" LED icons flash red respectively when the unit has detected enough smoke and/or CO to trigger an alarm. A flashing yellow LED indicates the unit needs to be serviced or replaced. Different horn patterns make it easy to determine which alarm, smoke or CO, is sounding. It also has a silence feature to temporarily quiet the alarm horn.

Refer to NFPA 72, NFPA101, and with model building codes published by ICBO, SBCCI, BOCA, and CABO for information on the proper location, placement, of Smoke Alarms. The Consumer Product Safety Commission (CPSC) recommends the use of at least one CO Alarm per household, located near the sleeping area. For added protection, install additional CO Alarms in each separate bedroom, and on every level of the home. Also, refer to [Model SC1000B - User's Manual](#) for more information on the proper location, placement, and installation of this Combination Smoke and Carbon Monoxide Alarm.

Mounting hardware and 9V alkaline battery are included with the unit.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The Combination Smoke and Carbon Monoxide (CO) Alarm shall be BRK Electronics Cat. No. SC1000B or approved equal and shall provide, at a minimum, the following features and functions.

1. Permanently installed smoke and CO sensors meeting sensitivity requirements of Underwriters Laboratories, Inc. UL 2034 and UL 217.
2. The unit shall be capable of self-restoring.
3. A silence button that silences the alarm while the occupant(s) respond. If significant levels of Smoke and/or CO are present after the initial silenced period, or if they continue to rise, the detector will alarm again.
4. The unit shall be powered by a single 9V battery (included).
5. A flashing green LED to indicate the unit is receiving power; flashes yellow when battery is low. "Flame" and "CO" LED icons that flash respectively when the unit has detected enough smoke and/or CO to trigger an alarm for easy alarm identification. A flashing yellow LED to indicate the unit needs to be serviced or replaced.
6. Different horn patterns to identify which alarm, smoke or CO, is in alarm.
7. A manual test button to test all functions by electronically simulating the presence of smoke and CO.
8. A solid state piezo alarm horn rated at 85dB at 10ft.
9. The unit shall be capable of operating between 40F and 100F (4-38C) and relative humidity of 30% and 70%.
10. The unit shall be capable of surface mount on walls and ceilings.
11. The unit shall be listed by Underwriters Laboratories, Inc. Single and Multiple Station Carbon Monoxide Detectors UL 2034 and Multiple Station Carbon Monoxide Detectors UL 2034, Underwriter's Laboratories Single and Multiple Station Smoke Alarm UL 217, and the State of California Fire Marshal.
12. The unit shall meet the requirements NFPA72, NFPA101, ICBO, BOCA, SBCCI, and CABO.
13. A five year manufacturers limited warranty.

## TECHNICAL SPECIFICATIONS

Alarm Circuit	100% Solid State
Operating Voltage	9V DC
Operating Ambient Temp. Range	40°F(4°C) to 100°F(38°C)
Operating Humidity Range	30% to 70% RH
Alarm Horn Rating	85dB at 10Ft.
Alarm Reset	Automatic when Smoke and/or CO clears
Single Test/Silence Button	Tests all functions by electronically simulating the presence of smoke and CO.  Silences the alarm while the occupant(s) respond. If significant levels of smoke and/or CO are present after the initial silenced period, or if they continue to rise, the alarm will alarm again.
Alarm Status Indicators	
Battery Status Indicator	Flashes green when unit is receiving power. Flashes yellow when battery is low.
Service Status Indicator	Flashes yellow when the unit needs service or replacement.
Smoke and CO Alarm Status Indicator	"Flame" and "CO" LED icons flash red respectively when the unit has detected enough CO and/or smoke to trigger an alarm.
Unit Dimensions	5 5/8" Dia x 1 1/2" H (w/ bracket)
Unit Weight	.7 lbs.
NAED #	85614
Units Per Case	3 units

## MANUFACTURED BY:

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