BRK ELECTRONICS®

Cat. No. CO5120BNA

CARBON MONOXIDE ALARM

AC/DC USES STANDARD 9V BATTERY

NEW! CO5120BNA Series Carbon Monoxide Alarm

- **Easier—Less time to install**
- **Sleek, low profile design**

DESIGNED WITH CONTRACTORS IN MIND! BRK ELECTRONICS® ™

C UL® LISTED CSA 6.19-01

Features Benefits

Features	Benefits
Centered “Quick-Connect” wiring harness	Provides quick and easy connection to AC power
Universal Mounting Bracket	Center mounts to any standard electrical junction box up to 4” octagonal without screw removal. Large opening for wiring connects to unit every 60 degrees for easy alignment and quick installation. Does not warp due to drywall imperfections. Same size footprint as other BRK Electronics® smoke alarms.
Easy-opening, pivoting side-load 9V battery compartment	No need to remove the unit from the ceiling to replace the 9V battery
9V battery is pre-installed	Just pull the mylar tab from the battery drawer and the battery is connected.
Interconnectable—up to 12 multiple station CO5120BNA alarms	Unit that detects carbon monoxide identifies itself, and sends alarm signal to other units connected in series.
3rd Generation electronic CO sensing circuit	Low power consumption — .085 amps standby, .087 amps in alarm Reduces nuisance alarms
Operates on 120VAC with 9V battery back-up.	Red LED indicates which power supply is active — AC or DC
Latching alarm indicator	The latching alarm feature indicates which unit(s) in an interconnected series has (have) detected alarm levels of CO.
Single Test/Silence button	Dual Function: • Tests all functions by electronically simulating the presence of CO • Silences the alarm while the occupant(s) respond to an alarm. After the initial silence period, if levels of CO present still indicate a potentially dangerous situation, the alarm will sound again.

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C UL® LISTED CSA 6.19-01

ISO 9002 BSI Registered Firm—Certificate #FM21268

LIMITED 5 YEAR WARRANTY

Cat. No. CO5120BNA

CARBON MONOXIDE ALARM 120 V AC HARDWIRE W/9V BATTERY BACK-UP

APPLICATION

BRK Electronics® Model CO5120BNA is a 120V, hard wired carbon monoxide alarm with a 9V battery back-up. It can be operated as a single station unit or interconnected to other BRK Electronics® Carbon Monoxide alarms. A latching alarm indicator shows which alarm(s) in an interconnected series detected alarm levels of carbon monoxide. These models also have a dual function test/silence button: during testing it will electronically simulate the presence of carbon monoxide, causing the unit to alarm; during an alarm it will temporarily silence the horn while residents take corrective action. The CO5120B has been fully tested and complies with Underwriters Laboratories, Inc. Safety Standard 2034 and Canadian Standard CSA 6.19-01 for single and multiple station carbon monoxide alarms, and with model building codes published by ICBO, SBCCI, BOCA and CABO. The CO5120BNA has a repeating temporal horn pattern - 4 beeps, pause, 4 beeps, pause. The alarm has been specifically designed for residential and institutional applications including single family homes, multi-family homes, sleeping rooms of hospitals, hotels, motels, dormitories, and other mixed occupancy dwellings as defined in standard NFPA 101. The sensor is a third generation metal oxide type. It is adjusted not to detect CO levels below 30 PPM. This unit will not alarm when exposed to a constant level of 30 PPM for 30 days. It will alarm at the following levels under 30% to 70% relative humidity (RH):

400 PPM CO between 4 and 15 minutes
150 PPM CO between 10 and 50 minutes
70 PPM CO between 60 and 240 minutes

According to Underwriters Laboratories Inc. UL 2034 section 1.2: carbon monoxide alarms covered by these requirements are intended to respond to the presence of carbon monoxide from sources such as, but not limited to, exhaust from internal combustion engines, abnormal operation of fuel-fired appliances, and fireplaces. CO alarms are intended to alarm at carbon monoxide levels below those that could cause a loss of ability to react to the dangers of carbon monoxide exposure. This CO alarm monitors the air, and is designed to alarm before CO levels become life-threatening. This is only possible if the alarms are located, installed, and maintained as described in the user manual.

The Consumer Products Safety Commission (CPSC) recommends the use of at least one CO alarm per household, located near the sleeping area. For additional protection, install additional CO alarms on every level of the home, in each separate bedroom, and near each separate sleeping area. It is recommended that Model CO5120BNA CO alarms be interconnected. Refer to the Model CO5120BNA user manual for more information on proper location, placement, and installation.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The Carbon Monoxide Alarm shall be BRK Electronics® Model CO5120BNA or approved equal and shall provide, at a minimum, the following features and functions:

1. A third generation sensor calibrated to meet UL 2034, October 1, 1998 and CSA 6.19-01.
2. The unit should be 120V hard wired with 9V-battery back-up.
3. In battery back-up mode, the battery must last for 8 hour minimum in standby and then 12 hour minimum in alarm.
4. The unit should be self-diagnostic and have a visual and audible alert to indicate a malfunction.
5. The alarm unit must have a button that will test the alarm by simulating CO, and silence any nuisance alarm.
6. A solid state Piezo alarm horn rated 85dB at 10 ft. that provides a temporal pattern: 4 beeps, paurse, 4 beeps, pause.
7. The alarm unit will have a red LED to indicate the status of the power supply (AC or DC).
8. The CO alarm will have a latched LED that will indicate which CO alarm(s) in the series detected alarm levels of CO. Latch is manually reset.
9. The CO alarm shall have an internal gasket to prevent the intrusion of outside air tht might otherwise infiltrate the unit and clean carbon monoxide from the sensing chamber.
10. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C).
11. The CO alarm will be interconnectable with up to 12 units of its own type.

TECHNICAL SPECIFICATIONS

Alarm Circuit	Solid State
Operating Voltage	120V AC 60 Hz, 9V DC back-up
Operating Amibent Temp. Range	40°F (4°C) to 100°F (38°C)
Operating Humidity Range	10% to 90% relative humidity (RH)
Alarm Horn Rating	85dB at 10 ft.
Alarm Reset	Automatic when CO clears
Single Test/Silence Button	Tests all functions by electronically simulating the presence of CO. Resets the latch feature. Silences the alarm while the occupant(s) respond to an alarm. After the initial silence period, if levels of CO present still indicate a potentially dangerous situation, the alarm will sound again.
Alarm Status Indicators	
Battery Status Indicator	Red LED flashes approximately once per minute when unit is operating on battery power only. Horn chirps once per minute when battery becomes low.
Service Status Indicator	If unit is not operating properly, Red LED flashes three times in rapid succession (every minute); horn chirps simultaneously.
CO Alarm Status Indicator	Red LED flashes rapidly; horn sounds in repeating pattern (4 beeps, pause, 4 beeps, pause) when the unit has detected enough CO to trigger an alarm.
Unit Dimensions	5.4“ Dia. x 1.86” H (w/bracket)
Unit Weight	7.3 oz.
Units Per Case	12 units

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