SMOKE ALARM

CAT. 9120 Series

DUAL IONIZATION
Dual ionization sensing chamber. Generally more effective at detecting small particles produced by flaming fires. Sources may include paper or kitchen grease.

LATCHING ALARM INDICATOR
Remembers which unit initiated an alarm.

SINGLE BUTTON TEST/SILENCE
Silences and tests alarm with a single button.

TWO LOCKING FEATURES
Pins are provided to lock battery drawer and/or alarm to base. Perfect for apartment, dormitory or hotel applications.

Available in the following versions:
- 9120  AC Alarm with silence
- 9120B  AC Alarm with silence and battery backup
- 9120AB  Same as 9120B but with alkaline battery
- 9120LB  Same as 9120B but with lithium battery
- 9120-48P  48 pack of Boxed 9120B
- 9120-48B  48 pack of Bulk 9120B
- 9120-GFD  18 count Gravity Feed Display
- 91206CP  Contractor Bulk 6-pack of 9120 Alarm
- 9120B6CP  Contractor Bulk 6-pack of 9120B Alarm

The BRK Brands, Inc. Model Numbers 9120 and 9120B are wire-in, 120V AC 60Hz single and/or multiple station smoke alarms specifically designed for residential and institutional applications including sleeping rooms of hospitals, hotels, motels, dormitories and other multi-family dwellings as defined in standard NFPA 101. Models 9120 and 9120B comply with UL217, CSFM, NFPA 72, HUD, FHA and other agencies that model their codes after the above agencies. They meet building codes where AC and AC/DC with Silence smoke alarms are required. The alarms are interconnectable with up to 18 devices, of which 12 can be smoke alarms.

The BRK® 9120 Series alarms feature a dual ionization smoke sensing chamber screened for insect protection, an 85dB horn, 9V battery back-up (all versions except model 9120) and a “silence” feature. The “Smart Technology” system is designed to reduce nuisance alarms. “Latching Alarm Indication” remembers which unit initiated an alarm. When interconnected in a series, the unit that triggered the alarm rapidly flashes its red LED indicator. After the alarm condition subsides, the initiating unit will store in memory or “latch” the information and begin to flash the green LED indicator 2 seconds on, 2 seconds off. The “Perfect Mount” system features a gasketless base and a mounting bracket that keeps the alarm secure over a wide rotation range to allow for true alignment. This will allow fine-tuning on the positioning to compensate for out of aligned wall studs and to keep the wording level when wall mounting. A Single button test/silence button eliminates confusion. Depending on what mode the alarm is in, pushing the button will test, silence, re-test the alarm when in silence and clear the latching feature.

Battery installation and removal can occur while the unit is mounted to the ceiling or wall via the side load battery compartment. Other Contractor Preferred features include a dust cover to keep alarm clean during construction, keyhole slots in the mounting bracket eliminate the need to remove the electrical box screws for installation. Two locking features are provided to prevent battery theft and/or theft of the unit. Connection to AC power is made with a “Quick-Connect” wiring harness. Installation is quick, easy and cost effective.
**ARCHITECTURAL AND ENGINEERING SPEC**

The smoke alarm shall be a BRK Model 9120B (battery backup) or 9120 (no battery backup) and shall provide at a minimum the following features and functions:

1. A Ionization smoke sensing chamber.
2. The unit shall be capable of self restoring.
3. Fully screened sensing chamber to resist entry of small insects thereby reducing the probability of unwanted alarms.
4. Powered by 120V AC, 60Hz and have a monitored 9V battery backup model (9120B only), and a solid state piezo horn rated at 85dB at 10 ft.
5. A visual green LED power-on indicator to confirm unit is receiving power or is in alarm.
6. A full function test button should check all alarm functions by simulating a smoke condition, causing the unit to alarm.
7. Silence feature - Temporarily silence unwanted nuisance alarms.
8. Two Locking features - tamper resistant locking pins that lock battery drawer and/or alarm to mounting bracket.
9. The unit shall be capable of operating between 40°F (4°C) and 100°F (38°C) and relative humidity between 10% and 90%.
10. The unit shall have a gasketless base for easy installation and be capable of keeping alarm secure over a wide rotation range to allow for true alarm alignment.
11. The unit shall have a plug in connector and be capable of interconnection of up to 18 alarms, 12 of which can be smoke alarms.
12. The unit shall at a minimum meet the requirements of UL217, CSFM, NFPA 72, NFPA 101, ICC

**INSTALLATION OF ALARM**

Installation of this smoke alarm must conform to all local electrical codes and Article 760 of the National Electrical Code (NFPA 70) and NFPA 72. Interconnected units must meet the following requirements: Total length of wire interconnecting units should be less than 1000 feet, be #18 gauge or larger and be rated at least 300V. It is recommended that all units be on the same fuse or circuit breaker. If local codes do not permit, be sure the neutral wire is common to both phases.

**THE PARTS OF THIS SMOKE ALARM**

1. Mounting bracket
2. Mounting Slots
3. Locking Pins
4. Hot (Black) AC Wire
5. Neutral (White) AC Wire
6. Interconnect (Orange) Wire
7. Battery Drawer Latch
8. Battery Drawer - Install 9V battery here
9. Quick-Connect Plug
10. Smoke Alarm
11. Ceiling or Wall
12. Neutral Wire (White)
13. Power Connector
14. Wire Nut
15. Junction Box
16. Interconnect Wire (Orange)
17. Hot Wire (Black)
18. Unswitched 120VAC 60 Hz source
19. To additional units; Maximum = 18 total (Maximum 12 Smoke Alarms)

**TECHNICAL SPECS**

- **Alarm Dimensions**: 5.6” dia x 2.0”H
- **Weight**: 6.5 oz (9120); 7.8 oz (9120B)
- **Operating Voltage**: 120V AC 60Hz w/ 9V battery backup (9120B only)
- **Operating Current**: .04 amps (standby/alarms)
- **Temperature Range**: 40°F (4°C) to 100°F (38°C)
- **Humidity Range**: 10% to 90% relative humidity (RH)
- **Audio Alarm**: 85dB at 10 feet
- **Test/Silence**: Electronically simulates smoke condition, causing the unit to alarm. Press and hold test/silence button
- **Alarm Reset**: Automatic when smoke clears
- **Interconnections**: Up to 18 units of First Alert or BRK Smoke, CO and Heat Alarms. Maximum of 12 smoke alarms. See user’s manual for details.

**Smoke Sensor**: Dual chamber ionization

**Indicator Lights/Sounds**

- **AC Power**: Constant Green LED
- **DC Power**: Intermittent Red LED (9120B only)
- **Local Alarm**: Red LED flashes rapidly
- **Remote Alarm**: Red LED out.
- **Latching Alarm**: Green LED flashes 2 sec. on/2 sec. off after local alarm

**Listing**: Listed to UL217 Standard

**SHIPPING SPECS**

- **Individual Carton Dimensions**: 5.69”L x 2.25”W x 5.59”H
- **Weight**: 0.53 lbs. (9120); .61 lbs. (9120B)
- **Cube**: 0.041 ft³
- **UPC**: 9120: 0 29054 51301 4
- **Master Carton Dimensions**: 14.43”L x 6.19”W x 12.63”H
- **Master Pack**: 12 (9120, 9120B, 9120AB, 9120LB)
- **Master Pack**: 18 (9120B-GFD)
- **Master Pack**: 48 (9120B-48P, 9120B-48B)
- **Weight**: 7.0 lbs. (9120)
- **Cube**: 0.653 ft³
- **Weight**: 7.9 lbs. (9120B)
- **Cube**: 1.20 ft³
- **Weight**: 12.8 lbs: (9120B-GFD)
- **Cube**: 2.36 ft³
- **Weight**: 25.0 lbs (9120B-48P, 9120B-48B)
- **Cube**: 6.05 ft³
- **Weight**: 4.53 lbs. (9120B-GFD)
- **Cube**: 12.80 ft³
- **Weight**: 7.9 lbs. (9120B-GFD)
- **Cube**: 25.0 ft³
- **Weight**: 12.8 lbs: (9120B-GFD)
- **Cube**: 60.5 ft³

**Pallet Information**

- **Cases per Layer**: 19 (9120, 9120B, 9120AB, 9120LB)
- **Number of Layers**: 3 (9120, 9120B, 9120AB, 9120LB)
- **Cases per Pallet**: 57 (9120, 9120B, 9120AB, 9120LB)
- **Units per Pallet**: 684 (9120, 9120B, 9120AB, 9120LB)
- **Cases per Layer**: 21 (9120B-GFD)
- **Number of Layers**: 3 (9120, 9120B, 9120AB, 9120LB)
- **Cases per Pallet**: 42 (9120B-GFD)
- **Units per Pallet**: 756 (9120B-GFD)
- **Cases per Layer**: 6 (9120B-48P, 9120B-48B)
- **Number of Layers**: 2 (9120B-48P, 9120B-48B)
- **Cases per Pallet**: 18 (9120B-48P, 9120B-48B)
- **Units per Pallet**: 684 (9120B-48P, 9120B-48B)
- **Cases per Layer**: 3 (9120, 9120B, 9120AB, 9120LB)
- **Number of Layers**: 3 (9120, 9120B, 9120AB, 9120LB)
- **Cases per Pallet**: 42 (9120B-GFD)
- **Units per Pallet**: 756 (9120B-GFD)
- **Cases per Layer**: 4 (9120, 9120B, 9120AB, 9120LB)
- **Number of Layers**: 2 (9120B-48P, 9120B-48B)
- **Cases per Pallet**: 18 (9120B-48P, 9120B-48B)
- **Units per Pallet**: 684 (9120B-48P, 9120B-48B)
- **Cases per Layer**: 4 (9120, 9120B, 9120AB, 9120LB)
- **Number of Layers**: 2 (9120B-48P, 9120B-48B)
- **Cases per Pallet**: 18 (9120B-48P, 9120B-48B)
- **Units per Pallet**: 684 (9120B-48P, 9120B-48B)

**Pallet Weight**

- **Weight**: 393 lbs. (9120)
- **Cube**: 42.2 ft³
- **Weight**: 439 lbs. (9120B, 9120AB, 9120LB)
- **Cube**: 42.2 ft³
- **Weight**: 601 lbs. (9120B-GFD)
- **Cube**: 42.2 ft³
- **Weight**: 479 lbs (9120B-48P)
- **Cube**: 42.2 ft³
- **Weight**: 649 lbs. (9120B-48B)
- **Cube**: 42.2 ft³

**Pallet Dimensions**

- **Dimensions**: 14.43”L x 6.19”W x 12.63”H