



# Field Bulletin

## Product Specifications

**Smoke Alarms • Carbon Monoxide Alarms • Heat Alarms • Fire Extinguishers**

To: All BRK Reps and Customers

Subject: SC7010BV Smoke/CO Combo Alarm Voice Warning Operation

Date: 4/24/09

### What the NFPA Requirements state regarding voice warning and smoke alarms:

#### NFPA 72 Section 11.3.5.2\* Voice Warning Requirements – Smoke Alarms

Fire warning equipment producing the audible emergency evacuation signal shall be permitted to incorporate voice notification under either or both of the following conditions:

- 1) Where the voice message is contained completely within the 1.5-second pause period of the audible emergency evacuation signal.
- 2) Where the voice message complies with (a) and (b) as follows:
  - a) The voice message is first preceded by a minimum of eight cycles of the audible emergency evacuation signal.
  - b) The voice message periodically interrupts the signal for no longer than 10 seconds followed by a minimum of two cycles of the audible emergency evacuation signal between each voice message. The initial eight-cycle period shall not be required to be repeated.

### How BRK's SC7010BV Voice Warning operates during Testing and in Alarm:

**During testing, you will see and hear the following sequence:**

#### Initiating Alarm:

- The Alarm Voice will say "Testing." The Horn will sound 3 beeps, pause, 3 beeps. The Alarm Voice will say "Warning, evacuate smoke in [Location, example: "Basement"]. Evacuate." The Power/Smoke LED flashes Red and the CO LED will be Off.
- Next the Horn will sound 4 beeps, pause, 4 beeps. The Alarm Voice will say "Warning, evacuate carbon monoxide in [Location, example: "Basement"]. Evacuate." The Power/Smoke LED will be Off and the CO LED flashes Red.

#### Interconnected Alarms:

- For "Smoke", because our "Voice Warning with Location" message is greater than 1.5 seconds long, we must wait the 8 cycle requirement of alarm signal before Voice can be used. Since the test cycle does not last that long nor do we want the test cycle to last for an extended period of time, voice on an interconnected alarm will only be heard during an actual alarm as per the required NFPA 72 Voice Warning requirements stated above. Both the Power/Smoke LED and the CO LED will be Off on interconnected alarms.



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- For Carbon Monoxide, since the NFPA requirement does not apply, the horn will sound 4 beeps, pause, 4 beeps. Then the Alarm Voice will say “Warning, evacuate carbon monoxide, Evacuate.” Both the Power/Smoke LED and the CO LED will be Off on interconnected alarms.

#### **During an alarm, you will see and hear the following sequence:**

##### **Initiating Alarm:**

- The alarm will sound 3 beeps, pause, 3 beeps for 8 cycles. Then the Alarm Voice will say “Warning, evacuate smoke in [Location, example: “Basement”]. Evacuate.” The Power/Smoke LED flashes Red and the CO LED will be Off.
- Next the Horn will sound 4 beeps, pause, 4 beeps. The Alarm Voice will say “Warning, evacuate carbon monoxide in [Location, example: “Basement”]. Evacuate.” The Power/Smoke LED will be Off and the CO LED flashes Red.

##### **Interconnected Alarms:**

- During an actual alarm, because the Alarm cycle is activated for as long as there is smoke, the horn will sound 3 beeps, pause, 3 beeps for 8 cycles. Then the Alarm Voice will say “Warning, evacuate smoke, evacuate.” No Location will be given. Only the initiating alarm provides a location on the SC7010BV. You must move to the First Alert One Link line of wireless products before ‘Location’ is sent wirelessly and announced on all Voice alarms. Both the Power/Smoke LED and the CO LED will be Off on interconnected alarms.
- For Carbon Monoxide, the Horn will sound 4 beeps, pause, 4 beeps. The Alarm Voice will say “Warning, evacuate carbon monoxide, evacuate.” No Location will be given. As with Smoke, only the initiating alarm provides a location. Both the Power/Smoke LED and the CO LED will be Off on interconnected alarms.