

BRK®

THE PROFESSIONAL STANDARD

UL 8th EDITION TRAINING

■ TRUSTED, RELIABLE PROTECTION SINCE 1958



BRK[®]

THE PROFESSIONAL STANDARD

UL 217 8TH EDITION UPDATE



What Is UL 217?

- UL 217 is the standard that all smoke alarms must be tested to in order to be a UL Listed smoke alarm
- ETL and UL are the 2 testing labs authorized to test to the UL 217 standard

What Is The 8th Edition?

- UL 217 8th Edition sets new testing standards designed to give as much advanced warning as possible, yet reduce the number of nuisance alarms
- It is the first major technical update to smoke alarms since 2006
- UL 8th Edition requires more than 200 technical changes to current smoke alarms

Why The Change?

- Modern homes use more synthetic materials which burn differently than organic materials
- Modern floor plans feature open floor plans allowing for smoke and fire to spread more quickly
- Nuisance alarms are the #1 reason homeowners disable their smoke alarms
- Escape times in the event of a fire have decreased; on average 10 - 15 minutes in the 1970's to less than 3 minutes today

Early Warning



There have been significant changes in home furnishing and finish materials over the past 30 years. Most modern-day household furniture are made from synthetic materials, which burns faster. First Alert Precision Detection technology gives you more time to escape in the event of an emergency as they detect smoke faster and provide early warning.

Less Cooking Nuisance



First Alert Precision Detection technology smoke alarms will help distinguish between nuisance alarms and a fire emergency. Three of every five home fire deaths resulted from fires in homes with no working smoke alarms and the #1 reason why people disable smoke alarms is due to nuisance cooking alarms. (UL)

What Does This All Mean?

- As of June 30, 2024, all smoke alarm manufacturers can only build products that meet the new standard
- Alarms built before then meet the UL standard and can still be sold, installed and used (this is a manufacturing standard, not a building code or legislative change)
- This will require all new smoke alarms and combination smoke/CO alarms; it does not affect CO only or other alarms
- Part/model numbers will change
- New price points; the new technology will cost more

**EFFECTIVE DATE CONFIRMED - JUNE 30, 2024
PER UL BULLETIN**

UL 217 8th Edition Affects all smoke and combination alarms



NEW TEST PARAMETERS:

① Responsive to changes in home and finish materials

② More stringent nuisance alarm criteria

③ More than 200 technical changes to the standard

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UL 217 8th Edition

UL ANNOUNCED DELAY TO JUNE 30, 2024

Compliant Models



TRUSTED, RELIABLE
PROTECTION SINCE 1958

UL 217
8TH EDITION
UPDATE



WHAT IS UL 217 8TH EDITION?

An update to the UL standard will go into effect June 30, 2024 for all manufacturers of smoke and combination smoke and carbon monoxide alarms.

Alarms produced after this date must be compliant to the performance requirements as specified in the UL 217 8th edition Standard for Safety for Single and Multiple Station Smoke Alarms. The implementation date applies to the date of manufacture and does not prohibit the continued sell through of any inventory on hand at our BRK distribution center or in stock at electrical distributor locations at the time of the transition. Alarms manufactured prior to the transition date can continue to be installed in compliance with local building code requirements and job site specifications.

UPDATE TO UL STANDARD DELAYED UNTIL JUNE 30, 2022

EFFECTIVE DATE CONFIRMED - JUNE 30, 2022
PER UL BULLETIN

UL 217 8th Edition Affects all smoke and combination alarms

NEW TEST PARAMETERS:

- Responsive to changes in home and finish materials
- More stringent nuisance alarm criteria
- More than 200 technical changes to the standard

ESCAPE TIMES IN HOME FIRES HAS DECREASED OVER THE LAST 40 YEARS

APPROX. 17 MIN 1978



APPROX. 3 MIN 2018



Natural materials and furnishings

Synthetic materials and open floor plans

PRECISION DETECTION TECHNOLOGY



Precision Detection is First Alert's advanced sensing technology that will be used for all smoke and combination alarms in that comply with UL 217 8th edition revised smoke alarm standards.

Early Warning



There have been significant changes in home layout and finish materials over the past 30 years. Most modern-day households have more synthetic materials, which burn faster. First Alert Precision Detection technology gives you more time to escape in the event of an emergency as the detect smoke faster and provide early warning.

Less Cooking Nuisance



First Alert Precision Detection technology smoke alarms will help distinguish between nuisance alarms and a fire emergency. Three of every five home fire deaths resulted from fires in homes with no working smoke alarms and the #1 reason why people disable smoke alarms is due to nuisance cooking alarms. ELI

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BRK BRANDS, INC. - Aurora, IL USA

Trade Name(s): First Alert, BRK Brands Inc.

AC operated Single and/or Multiple Station Smoke Alarm & Carbon Monoxide Alarm with Voice, First Alert, BRK Brands Inc., Model No. SMCO100V-AC.

AC operated Single and/or Multiple Station Smoke Alarm with Voice, First Alert, BRK Brands Inc., Model No. SM100V-AC.

Battery Operated Photoelectric Single Station Smoke and CO Alarm, And Battery Operated RV Photoelectric Single Station Smoke and CO Alarm, First Alert, BRK Brands Inc., Model Nos. SMCO100, SMCO100RV.

Battery Operated Single Station Smoke Alarm with Voice, First Alert, BRK Brands, Inc., Model Nos. SM210, SM210V.

Single Station, Residential, Battery Operated ,Photoelectric Smoke Alarm, First Alert, BRK Brands, Inc, Model Nos. SM200, SM200V.

Single Station, Residential, Battery Operated ,Photoelectric Smoke and Carbon Monoxide Alarm, First Alert, BRK Brands, Inc., Model Nos. SMCO210, SMCO210V.

Single Station, Residential, Battery Operated ,Photoelectric Smoke and Carbon Monoxide Alarm First Alert, BRK Brands, Inc., Model Nos. SMCO200, SMCO200V.

BRK
28 Models
(ATM Granted)

Over 200
Technical Changes

New Market
Price Points

New
Models / Lineup

6

UL 217 8th Edition - Recap



Smoke Alarms – Major Changes Coming

- UL 217 8th Edition – set for **June 2024**
- New testing protocol for Smoke Alarms only (CO not affected)
- NOT A BUILDING OR LEGISLATION CODE – It is a change to the standard that will require new models to meet it
- Precision Detection:
 - BRK/First Alert's advanced sensing technology that will be used for all smoke and combination alarms compliant with UL 217 8th Edition
 - New sensing technology detects smoke faster and provides earlier warning
 - Help distinguish between nuisance alarms and a fire emergency

EFFECTIVE DATE CONFIRMED - JUNE 30, 2024 PER UL BULLETIN

UL 217 8th Edition Affects all smoke and combination alarms



NEW TEST PARAMETERS:

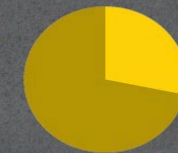
- 1 Responsive to changes in home and finish materials
- 2 More stringent nuisance alarm criteria
- 3 More than 200 technical changes to the standard

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ESCAPE TIMES IN HOME FIRES HAS DECREASED OVER THE LAST 40 YEARS

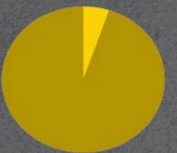
APPROX.
17 MIN
1978

Natural
materials
and furnishing



APPROX.
3 MIN
2018

Synthetic
materials and
open floor plans



Source: Smart Smoke Alarms and New UL Testing Standards, Presentation to International Fire Chiefs Association (IFCA) October 11, 2019, ifca.org

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Thank you!

