



WIRE-FREE INTERCONNECT SMOKE ALARM

HARDWIRED + 2 AA BACKUP BATTERIES (INCLUDED)

DETECT SERIES | MODEL 20SAR-VRF

INTERCONNECTED + WIRE-FREE INTERCONNECT

Never miss an emergency alert from wire-free interconnected alarms — when one alarm sounds, all compatible alarms do.¹ Combines wired and wire-free interconnected alarms for whole home coverage that extends to areas without existing wiring.

LOW-COST SOLUTION FOR RENOVATIONS

Eliminates the need for costly wiring and helps meet code requirements² by interconnecting with wire-free interconnect battery alarms.

CUTTING EDGE TECHNOLOGY

Over 25% faster smoke detection³ helps give you more time to get out safely.



Images are representative only.
Actual product may vary slightly.



Description

North America's #1 home fire safety brand* is bringing you the next level of fire safety with the Kidde Smoke Alarm model 20SAR-VRF.

This alarm offers a modern 5" design ideal for all living spaces. Cutting edge technology sends fast alerts that give your family more time to get out safely and enhanced sensing technology reduces false alarms often caused by cooking.

It also features wire-free interconnect, so when one alarm sounds, all compatible alarms do.¹ This model supports both wired and wire-free interconnect for whole home coverage, including areas without existing wiring. It's a low-cost solution for renovations, helping meet code requirements² by interconnecting with wire-free interconnect battery alarms.

Comprehensively tested and designed to the latest UL standard for safety and reliability, this Kidde alarm is powered by 120V AC with 2 AA replaceable backup batteries (included) for continual detection even during outages. It's also equipped with end-of-life notifications that beep to remind you it's time to replace your alarm 10 years after it's powered. Plus, it's self-testing⁴ and features voice alerts that tell you exactly why your alarm is sounding.

Alarm Warnings – Featuring multi-color LEDs

Fire: The red LED blinks in time with the alarm pattern (3 long beeps), with "Fire!" voice alert. The alarm will repeat this pattern until the unit is reset or smoke is eliminated.

Low Battery: One chirp and one amber LED blink every 60 seconds with "Low Battery" voice alert.

Clean Alarm: Three chirps and one amber LED blink every 60 seconds, with "Clean the Alarm" voice alert.

Alarm Memory: Alerts a user if smoke has been detected in the last 24 hours. If smoke has been detected, the red LED blinks every 15 seconds.

Additional Features & Benefits

- **2 AA Replaceable Batteries** – Change replaceable batteries every 6 months, or when you hear the low battery chirp.
- **Voice Alerts** – Crystal-clear voice alerts tell you exactly why your alarm is sounding so you can react quickly.
- **Reduced Nuisance Alarms** – Enhanced sensing technology reduces false alarms often caused by cooking.
- **Self-Testing Alarms⁴** – For added assurance, internal components ensure alarm is always operating as expected.
- **End-of-Life Notifications** – This alarm beeps to remind you it's time to replace it 10 years after it is powered.

*Based on total household installations as of December 2023. ¹Different models offer different interconnection options and requirements. Check the User Guide for more info. ²In accordance with NFPA 72. ³29% faster average smoke detection based on internal testing of smoldering wood fires for Kidde 9th Edition vs. leading competitor 8th Edition products. ⁴Self-testing is not a substitute for a manual push test of the alarm. Perform a button test once per week to verify proper alarm operation.

Installation of Alarm

This model meets the latest residential smoke alarm standards, which includes enhanced resistance to nuisance alarms from cooking. Industry experts recommend that both ionization and photoelectric smoke alarms be installed to help ensure optimal detection of the various types of fires that can occur within the home. Ionization sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms. Industry experts recommend specific locations for smoke alarms, such as every level and sleeping area of the dwelling. The alarm can be installed on the surface of any wall or ceiling following the UL/NFPA/Manufacturer's recommended placement guidelines. The alarm can be installed on any standard single gang electrical box, up to a 4" octagon junction box. See User Guide for more location information and additional instructions.

The alarm should be installed to comply with all local codes having jurisdiction in your area, Article 760 of the National Electric Code, and NFPA 72. Make certain all alarms are wired to a single, continuous (non-switched) power line, which is not protected by a ground fault interrupter. A maximum of 1000 ft. of wire can be used in the interconnect system. Use standard UL listed household wire (18 gauge or larger as required by local codes).

Architectural & Engineering Specifications

A maximum of 24 Kidde devices can be interconnected in a multiple station arrangement. The interconnect system must not exceed the NFPA (National Fire Protection Association) limit of 18 initiating devices, of which 12 can be smoke alarms. With 18 initiating devices (smoke, heat, CO, etc.) interconnected, it is still possible to interconnect 6 strobe lights and or relay modules.

The alarm shall include a test button that will electronically simulate the presence of smoke and cause the unit to go into alarm. This sequence tests the unit's electronics to ensure proper operation. The unit shall incorporate three LED colors. A green LED will be steady on when AC power is connected, or blink every 60 seconds when in the battery only mode. An amber LED will indicate fault conditions. A red LED will blink in sync with the smoke alarm pattern, and will also indicate alarm memory.

The unit shall include the Hush™ feature that silences a smoke alarm for approximately 8-10 minutes if a nuisance alarm condition occurs. The red LED on the alarm will blink every 2 seconds while in Hush™ and will automatically reset itself.

At the date of manufacture, the unit shall at a minimum meet the requirements of UL 217, NFPA 72, NFPA 101 (one- and two-family dwellings), Federal Housing Authority (FHA), and Housing and Urban Development (HUD).

Technical Specifications

Model:	20SAR-VRF
Power Source:	120V AC, 60 Hz, 85mA max, with 2 AA battery backup
Smoke Sensor:	Photoelectric
Audio Alarm:	85 dB at 10 ft
Temperature Range:	40 °F (4.4 °C) to 100 °F (37.8 °C)
Humidity Range:	Up to 95% relative humidity (RH), non-condensing
Size:	Alarm in box: 5.67" W x 2.44" D x 5.67" H Alarm out of box: 5" W x 2" D x 5" H
Weight:	0.89 lb
Wiring:	AC wiring, plug-in quick connector
Interconnects:	Interconnects with up to 24 Kidde devices. Please see User Guide for list of compatible alarms. This alarm is not designed to be interconnected with other manufacturers' products, unless otherwise specified.
Warranty:	10-Year Limited Warranty (batteries excluded)
Replacement Batteries:	Energizer E91, Gold Peak 15A or Golden Power GLR6A. Replacement batteries are available where you purchased this alarm. <i>Note: Do not use Lithium batteries in this unit.</i>

Ordering Information

Ordering Number	UPC	GTIN	Pack Config.	Pack Qty	Case Dimensions (D x W x H inches)	Case Weight (lbs)	Cartons/Pallet
21033921	047871339211	10047871339218	Box	3	8.39 x 6.3 x 6.06	2.95	192