



WIRE-FREE INTERCONNECT SMOKE + CO ALARM with Voice Alerts

ITEM 21033917 | MODEL CUDCFEX-VRF

2 AA Batteries (INCLUDED)



Images are representative only. Actual product may vary slightly.

Description

When you're on the job, there's no room for uncertainty. Built for pros, the FireX Combination Smoke + Carbon Monoxide Alarm (model CUDCFEX-VRF) delivers dependable, code-compliant detection — backed by North America's #1 home fire safety brand.*

This advanced dual-sensor alarm meets UL 217 10th Edition and UL 2034 5th Edition standards. You'll also find key features both you and your customers will appreciate, like voice alerts, wire-free interconnect,¹ reduced nuisance alarms, self-testing capability, event memory and universal mounting for streamlined installs.

Features & Benefits

- **Faster Detection²** – Advanced smoke chamber design for quicker, more reliable alerts
- **Reduced Nuisance Alarms** – Intelligent algorithms help distinguish real threats from false alarms
- **Fire Event Locator Memory** – LED indicator every 15 seconds after an alarm event
- **Self-Testing Diagnostics** – Monitors key functions for consistent, lasting performance
- **Heat & Humidity Protection** – Conformal coating protects against oxidation, corrosion and environmental conditions
- **5-Inch Universal Mounting Bracket** – Streamlines installation and replacement
- **Preinstalled Dust Cover** – Rigid plastic cover shields alarm from construction dust and debris
- **Durable, Fire-Resistant Housing** – Built-to-last with screw-secured PVC construction that resists yellowing and aging
- **Wire-Free Interconnect¹** – Low-cost retrofit solution delivers interconnected detection with no wiring required
- **Voice Alerts** – React quickly with crystal-clear voice alerts that tell you exactly why the alarm is sounding

Ordering Information

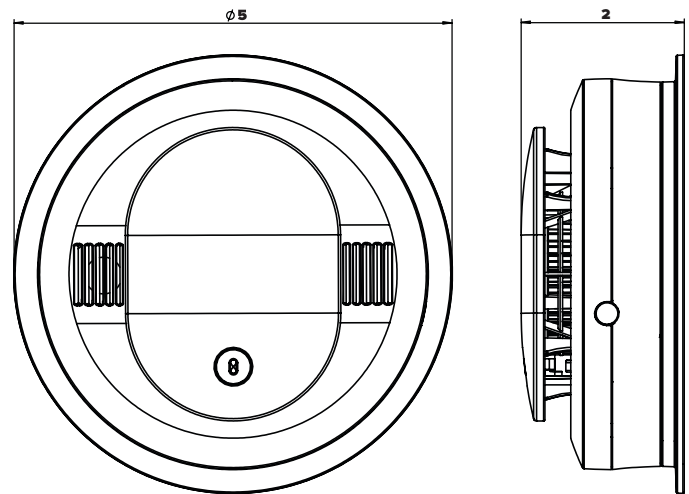
Ordering Number	UPC	GTIN	Pack	Case Dimensions (D x W x H in)	Case Weight (lbs)	Cartons/Pallet
21033917	047871339174	10047871339171	3 / case	8.39 x 6.3 x 6.06	~ 3	216

*Based on total household installations as of December 2023. ¹ Different models offer different interconnection options and requirements. Check the User Guide for more info. ² 29% faster average smoke detection based on internal testing of smoldering wood fires for Kidde 9th Edition vs. leading competitor 8th Edition products.

Model Specifications

Alarm Indications	Smoke Alarm: Temporal-3, ≥85 dB @10 ft, with voice "Fire!"
	Red LED in sync with hazard
	Amber LED = Fault / Error / EOL / Low Battery
	Green = Power
	Event Recall: 1 Red LED blink for smoke, 2 Red LED blinks for CO, every 15 sec (24 hrs.)
	Clean Me: 1 blink + 3 chirps / Voice "Clean the Alarm" (dust)
	CO Alarm: 4 beeps with voice "Warning! Carbon Monoxide"
Power & Battery	Primary: 3V DC 2 × AA batteries (included)
	Battery Life: ~1 yr (replace when chirp occurs)
	UL 217 + UL 2034 endurance certified
	Approved: Energizer E91, Gold Peak 15A, Golden Power GLR6A
	Not lithium compatible
Functional Features	Test/Hush Button (simulates smoke)
	Hush™ (8 min)
	Alarm Auto Reset After Hushing
Wireless	Frequency band: 916MHz-923MHz
	Number of channels = 8
Compliance & Listings	ETL Listed; UL 217, 10th Edition; UL 2034 5th Edition
	NFPA 72 (2025)
	NFPA 101
	ICC/IBC aligned
	CSFM Listed
	Meets HUD/FHA standards
Architectural / Engineering	Housing: Flame-retardant thermoplastic (UL 94)
	3 LED indicators + voice
	≥85 dB
	Meets UL 217 10th + UL 2034, NFPA 72 (2025), NFPA 101, FHA, HUD
Technical	Model: CUDCFEX-VRF
	Sensors: Photoelectric + Electrochemical CO
	Temp: 40–100 °F
	Humidity: 10 to 95% relative humidity (RH), non-condensing
	Dimensions: 5.67" box / 5" out
	Weight: ~1.0 lb.
	Interconnect: Up to 24 Kidde devices
Warranty	10-Year Limited (excludes batteries)
User Guide Languages	English / Spanish

Product Dimension (in)



Installation of Alarm³

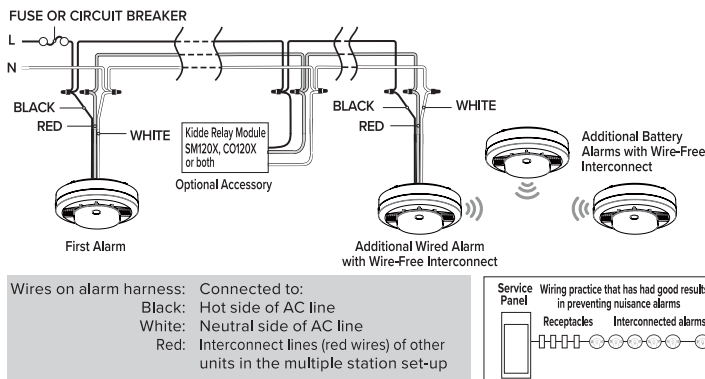
The alarm can be installed on any standard single gang electrical box, up to a 4" octagon junction box. See User Guide for more location information and additional instructions.

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).

A maximum of 24 Kidde Safety devices may be interconnected in a multiple station arrangement. The interconnect system should not exceed the NFPA interconnect limit of 12 smoke or smoke/CO combination alarms and/or 18 alarms total (smoke, CO, smoke/CO combination, heat, etc.). With 18 alarms interconnected, it is still possible to interconnect up to a total of 6 remote signaling devices and/or relay modules.

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. They also recommend a CO alarm be installed on each level of the home — ideally on any level with fuel-burning appliances and outside of sleeping areas. The alarm can be installed on the surface of any wall or ceiling following the UL/NFPA/Manufacturer's recommended placement guidelines.

³For technical information only. Not for installation use. See User Guide for installation and safety information.

Installation of Alarm³ (Continued)**Interconnect Diagram³**

⚠ WARNING: Failure to properly connect AC power and install batteries in the correct orientation will prevent proper operation of this alarm and will prevent its response to fire and/or CO hazards.

This model can be interconnected using Wire-Free Interconnect with the following: RGSDR-RW, RGCUDR-RW, 20SAR-VRF, 20SDR-VRF, 30CUAR-VRF, 30CUDR-VRF, SMACFEX-VRF, SMDCFEX-VRF, CUACFEX-VRF, CUDCFEX-VRF.

Alarm Warnings — Featuring multi-color LEDs

- **Fire:** The red LED will flash in sync with the alarm pattern (3 long beeps). The alarm will repeat this pattern until the unit is reset or smoke is eliminated.
- **Carbon Monoxide:** The red LED will flash in sync with the alarm pattern (4 quick beeps). This continues until the unit is reset or the CO is eliminated.
- **End of Unit Life:** Two chirps and amber LED flashes per minute.
- **Alarm Memory:** Alerts a user if smoke or CO has been detected in the last 24 hours. If smoke has been detected, the red LED blinks every 15 sec. If CO has been detected, the red LED blinks twice every 15 sec.

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Pro Notes / Maintenance

- Clean only with compressed air/vacuum & dry cloth — no water or cleaners
- Keep 3 ft from ducts, fans and lights
- **Troubleshooting Nuisance Alarms**
 1. **Hush** — Press Hush/Test to silence the alarm
 2. **Clean** — Clear alarm openings using compressed air or vacuum
 3. **Test** — After cleaning, press Hush/Test to retry alarm
 4. **Call** — If issue persists, call Kidde Pro Support

Keep the installed dust cover on until at least 24 hours after all construction has been completed (drywall, painting, varnishing, mounting plate install, etc.). Retain the dust cover and reinstall it to protect the alarm during future construction projects. Construction dust and chemicals can cause contamination and false alarms.



⚠ WARNING:
Dust cover must be removed for alarm to operate.

Images are representative only. Actual product may vary slightly.

**THE RIGHT SUPPORT,
RIGHT WHEN YOU NEED IT.**

Get the answers you're looking for, with a dedicated customer service line for pros.
Call **Kidde Pro Support** at **1-888-422-6402**.

Material Safety Data Sheet MSDS

Ref. No. : GPMSDS - GLR6A - 2015A

IDENTITY (As Read on Label and Line) GLR6A ALKALINE BATTERY	Notice: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name Golden Power Corporation (HK) Ltd.	Telephone Number (852) 3125 2288
Address (Number, Sheet, City, State, and ZIP Code) Flat C, 20/F., Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, N.T., Hong Kong	Fax Number (852) 3125 2000 / 3125 2001 Date Prepared 2 January 2015
	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Names)	(contents, %/wt)	CAS No.
Manganese Dioxide (MnO ₂)	37.07 %	1313-13-9
Zinc (Zn)	17.43 %	7440-66-6
Potassium Hydroxide (KOH)	6.82 %	1310-58-3
Graphite (C)	2.56 %	7782-42-5
Cadmium (Cd)	< 0.0005 %	7440-43-9
Mercury (Hg)	< 0.0001 %	7439-97-6
Lead (Pb)	< 0.0002 %	7439-92-1

Section III – Physical/Chemical Characteristics

Boiling Point KOH aqua solution = 140 °C	Specific Gravity (H ₂ O=1) MnO ₂ = 4.4, Zn = 7.1, KOH = 2.0
Vapor Pressure (mmHg) KOH aqua solution = 3mmHg at 20 °C	Melting Point MnO ₂ decompose at 535 °C Zn = 420 °C, KOH aqua = -35 °C
Vapor Density (Air = 1)	Evaporation Rate (Butyl Acetate = 1)

Solubility in Water KOH – complete

Appearance and Color

MnO₂ is a black powder, Graphite is also a black powder, Zinc is a silver metal.

KOH aqua is a colorless liquid with stimulative order.

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) Incombustible	Flammable Limits Not Available	LEL	UEL
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Extinguishing Media: See Special Fire Fighting Procedure

Special Fire Fighting Procedure: In case of fire in an adjacent area, use water, CO₂ or dry chemical extinguishers if cells are packed in their original containers since the fuel of the fire is basically paper products. For bulk quantities of unpackaged cells use LITH-X (Graphite Base). In this case, do not use water.

As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.

Unusual Fire and Explosion Hazards

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid	Do not short circuit, charge or dispose of in fire.
	Stable	√		

Incompatibility (Materials to Avoid) Hazardous polymerization will not occur.

Hazardous Decomposition or Byproducts Not Available

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	√	

Section VI – Health Hazard Data

Route(s) of Entry.	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
Health Hazards (Acute and Chronic)	These chemicals are contained in a sealed can. Risk of exposure occurs, only if battery is mechanically or electrically abused. The most likely risk is acute exposure when a cell vents KOH is caustic alkali and attack the skin and eyes. Contact of electrolyte with skin and eyes should be avoided.					

Section VII – Ecological Information

Cardnogenicity NTP? Not Available IARC Monographs? Not Available OSHA Regulated? Not Available

Signs and Symptoms of Exposure KOH can cause chemical burn upon contact with skin.

Medical Conditions
Generally Aggravated by Exposure An acute exposure will not generally aggravate any medical help.

Section VIII –Emergency and First Aid Procedures

In case of skin contact with content of battery, flush immediately with water.

For eye contact, flush with copious amount of water for 10 minutes. If irritation persists, get medical help.

Section IX - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Wipe out by wet duster.

Section X - Waste Disposal Method

General abandonment

Section XI - Precautions to Be Taken in Handling and Storing

Avoid mechanical or electrical abuse.

Section XII - Other Precautions

Do not short circuit, charge or dispose of in fire. Battery may explode or leak.

Section XIII - Control Measures

Respiratory Protection (Specify Type)		Not Available	
Ventilation	Local Exhaust	Special	
	Not Available	Not Available	
	Mechanical (General)	Other	
	Not Available	Not Available	
Protective Gloves	Butyl	Eye Protection	Safety Glasses
Other Protective Clothing or Equipment			
Not Available			
Work / Hygienic Practices			
Not Available			

Section XIV – Regulatory InformationNot Available

Section XV – Other InformationNot Available

Section XVI – Transportation Information

Golden Power GLR6A ALKALINE BATTERY are considered to be “dry cell” batteries and are not listed as dangerous goods under below regulations:

1. Batteries, dry fulfills the requirement of U.S. Department of Transportation (DOT), Special Provision 130, i.e. they are offered for transportation in a manner that prevents the dangerous evolution of heat (for example, by the effective insulation of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.)”.
2. International Civil Aviation Administration (ICAO) and International Air Transport Association (IATA Dangerous Goods Regulation 56th Edition 2015), Special Provision A123, i.e. “An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the battery and protection of exposed terminals or batteries to be packed in such a way to prevent short circuits or generation of a dangerous quantity of heat.) is forbidden from transportation.”
3. International Maritime Dangerous Goods Regulations (IMDG) 2012 edition does not regulate these batteries.

Examples of such batteries include alkali-manganese, silver oxide, zinc carbon, nickel metal hydride and nickel-cadmium batteries.
