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Kidde i12010S

Kidde Hardwired Smoke Detector i12010S User Manual

Model: i12010S

1. INTRODUCTION AND OVERVIEW

The Kidde Hardwired Smoke Detector, model i12010S, is designed to provide early warning of fire. This device utilizes ionization sensor technology, which is effective at detecting invisible fire particles often associated with fast-flaming fires. It operates on a 120-volt AC power source and includes a sealed 10-year lithium battery backup, ensuring continuous protection even during power outages. When smoke is detected, an 85-decibel alarm will sound, accompanied by visual indicators. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and safety.



Image 1.1: Key features of the Kidde i12010S Smoke Detector, including 10-year sealed battery, ionization sensor, Smart Hush, 120V AC wiring, end-of-life hush, and LED lights.

2. IMPORTANT SAFETY INFORMATION

Read all instructions before installation and operation. Failure to follow these instructions may result in property damage, injury, or death. This smoke alarm is designed for residential use only. It is not intended for use in non-residential buildings or for special applications. Do not paint the alarm. Paint can clog the openings and interfere with the sensor's ability to detect smoke.

2.1 Placement Guidelines

For optimal protection, install smoke detectors on every level of your home, inside each bedroom, and outside each sleeping area. Ensure alarms are not placed within 6 feet of heating or cooking appliances, or in areas with high humidity like bathrooms, as this can lead to nuisance alarms. Refer to local codes and NFPA 72 for specific requirements.



Detects Smoke

- 10 Year Sealed Battery
- Ionization sensor
- Smart Hush™
- Powered by 120V AC wiring
- End of Life hush for 3 days
- LED Lights

Image 2.1: Recommended placement guide for smoke alarms, carbon monoxide alarms, and fire extinguishers within a typical home layout.

2.2 Warnings

- **Temperature and Humidity:** Constant exposure to high or low temperatures or high humidity may reduce battery life. This unit is designed for indoor use only.
- **Radioactive Material:** This device contains a small amount of radioactive material. Do not attempt to open or tamper with the unit.
- **End of Life:** Failure to turn off the alarm as instructed prior to disposal may create potential for lithium battery related fire or hazard.

3. SETUP AND INSTALLATION

The Kidde i12010S smoke detector is hardwired and requires a 120V AC power supply. It is designed for easy installation, especially when replacing older hardwired units. Always ensure power is turned off at the circuit breaker before beginning installation.

3.1 Wiring Instructions

Connect the smoke detector to a continuous 120V AC, 60Hz household electrical circuit. Use the provided wiring harness. The black wire is for hot (L), the white wire for neutral (N), and the red wire for interconnect (if applicable). Ensure all connections are secure and comply with local electrical codes.



10-Year Sealed Lithium Battery
Voice Alert

Image 3.1: The Kidde i12010S smoke detector with its hardwired connection wires (black, white, red) for electrical installation.

3.2 Battery Activation and Mounting

The unit features a sealed 10-year lithium battery that activates upon installation. Once the mounting plate is secured and the unit is twisted onto the plate, a tab is permanently moved, initiating the battery backup. Ensure the 'ON' switch is engaged. Mount the detector firmly to the ceiling or wall according to the placement guidelines.





Image 3.2: The back of the Kidde i12010S smoke detector, detailing wiring connections, important warnings, and a quick reference guide for alarm signals.

3.3 Interconnection Capability

This smoke detector can be interconnected with up to 24 compatible Kidde smoke, heat, or CO alarms. When one interconnected alarm senses smoke, all connected alarms will sound, providing enhanced warning throughout your home. The red interconnect wire facilitates this feature.

4. OPERATION

Once installed and powered, the smoke detector continuously monitors for smoke. Familiarize yourself with its indicators and functions.

4.1 Test/Hush Button

The large central button on the front of the alarm serves two functions:

- **Test:** Press and hold the button to test the alarm's electronic circuitry, horn, and battery. The alarm will sound if functioning correctly. Test weekly.
- **Hush:** In case of a nuisance alarm (e.g., from cooking smoke or shower steam), press the button to temporarily silence the alarm for approximately 8-10 minutes. The alarm will automatically reset after this period.



Image 4.1: Front view of the Kidde i12010S smoke detector, highlighting the central push-to-test/hush button and the green/red LED indicators.

4.2 LED Indicators and Alarm Signals

The unit has a green LED for power/standby and a red LED for alarm/trouble conditions.

Signal	Indication
Three long "beeps"	Indication of fire hazard.
One "chirp" every 60 seconds	Indication of low battery.
One "chirp" every 30 seconds prior to "replace by" date	Indication of a dirty sensor or malfunction.
Two "chirps" every 30 seconds after "replace by" date	Indication that it is time to replace the alarm. REPLACE IMMEDIATELY! ALARM WILL NOT DETECT SMOKE IN THIS CONDITION.
Constant green LED	Indication that AC power is connected.
Green LED blinks 1 time every second	Indication that unit has initiated an alarm.

Signal	Indication
Green LED blinks 1 time every 10 seconds	Indication that unit is in HUSH mode.
Green LED blinks 1 time every 48 seconds	Indication that unit is powered by battery only.
Green LED blinks 1 time every 16 seconds	Indication of a previous alarm.

5. MAINTENANCE

Regular maintenance ensures your smoke detector remains operational and effective.

5.1 Weekly Testing

Test your smoke alarm weekly by pressing and holding the Test/Hush button until the alarm sounds. This verifies the electronic circuitry, horn, and battery are working correctly.

5.2 Cleaning

Clean your alarm at least once a month. Use a soft brush attachment on your vacuum cleaner to remove dust and debris from the openings around the perimeter of the alarm. Do not use cleaning solvents or spray directly on the unit.

5.3 End-of-Life Indication

The smoke detector has a 10-year operational life. At the end of its life, the unit will begin to chirp two times every 30 seconds. This indicates that the alarm needs to be replaced immediately. The alarm will not detect smoke in this condition. To silence the end-of-life chirps for up to 3 days, press the Test/Hush button. This feature is temporary and the unit must be replaced.

6. TROUBLESHOOTING

If your smoke detector is not functioning as expected, refer to the following common issues and solutions.

6.1 Nuisance Alarms

If the alarm sounds due to cooking smoke, steam, or other non-emergency conditions, press the Test/Hush button to temporarily silence it. Ensure the alarm is not placed too close to kitchens, bathrooms, or other sources of steam/smoke. Regular cleaning can also prevent false alarms caused by dust buildup.

6.2 Chirping Sounds

Refer to the "LED Indicators and Alarm Signals" table in Section 4.2 for a detailed explanation of chirping patterns. Most chirps indicate a low battery, a dirty sensor, or that the unit has reached its end-of-life and requires replacement.

6.3 Alarm Not Sounding During Test

If the alarm does not sound when the Test/Hush button is pressed, ensure the unit is receiving 120V AC power and the battery is activated. If the issue persists, the unit may be faulty and requires replacement.

7. SPECIFICATIONS

Detailed technical specifications for the Kidde i12010S Smoke Detector.

Feature	Specification
Model Number	i12010S
Power Source	120 Volts AC, 60Hz Hardwired
Battery Backup	Sealed 10-Year Lithium Battery (included)
Sensor Type	Ionization
Alarm Loudness	85 Decibels at 10 feet
Operating Humidity	Up to 95% relative humidity, non-condensing
Product Dimensions	1.75"D x 5.5"W x 5.5"H
Item Weight	7.2 ounces
Interconnection	Up to 24 Kidde devices
Certifications	UL Certified, Meets UL 217, NFPA72, NFPA101



Image 7.1: Dimensions of the Kidde i12010S Smoke Detector.

8. WARRANTY AND SUPPORT

8.1 Limited Warranty

The Kidde i12010S Smoke Detector comes with a 10-year limited manufacturer's warranty. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, warranty service, or to return a unit for repair, please contact Kidde Safety directly. Do not attempt to repair the unit yourself.

Kidde Safety

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