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- › [Ademco](#) /
- › [Honeywell Intellisense FG-1625 Acoustic Glassbreak Sensor User Manual](#)

Ademco 000102701

Honeywell Intellisense FG-1625 Acoustic Glassbreak Sensor User Manual

Model: FG-1625 (000102701) | Brand: Ademco

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Honeywell Intellisense FG-1625 Acoustic Glassbreak Sensor. This device is designed to detect the sound of breaking glass, providing an early warning system for security applications. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect power before performing any wiring or maintenance.
- Installation should be performed by qualified personnel in accordance with all local and national electrical codes.
- Do not expose the sensor to moisture or extreme temperatures.
- Ensure proper grounding to prevent electrical hazards.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Honeywell Intellisense FG-1625 Acoustic Glassbreak Sensor
- Mounting hardware (screws, anchors)
- Installation Guide (this document)

4. SETUP AND INSTALLATION

The FG-1625 sensor is designed for easy installation and can be mounted in various locations to cover all glass types within a 25-foot radius. It features a FlexCore Signal Processor for reliable detection.

4.1 Mounting Location

Choose a mounting location that provides an unobstructed view of the protected glass. The sensor can be mounted on walls or ceilings. Avoid mounting directly opposite noisy areas or near air vents that could cause false alarms.



Figure 1: Honeywell Intellisense FG-1625 Acoustic Glassbreak Sensor. This image shows the compact design of the sensor, typically mounted on a wall or ceiling

4.2 Wiring Instructions

The FG-1625 is a hardwired sensor. Connect the sensor to your alarm control panel using the following wiring scheme:

- **V+ (Red Wire):** Connect to the positive power terminal (12V DC).
- **V- (Black Wire):** Connect to the negative power terminal (Ground).
- **C (Yellow Wire):** Connect to the Common terminal of the alarm zone.
- **NC (Blue Wire):** Connect to the Normally Closed terminal of the alarm zone.

Ensure all connections are secure and insulated. Refer to your alarm control panel's manual for specific zone wiring details.

4.3 Sensitivity Adjustment

The sensor features selectable sensitivity settings to optimize performance for different environments and glass types. Consult the internal dip switches or jumpers (refer to the sensor's internal diagram) to adjust sensitivity. Test the sensor after adjustment using a glassbreak simulator to confirm proper operation.

5. OPERATION

Once installed and powered, the FG-1625 sensor continuously monitors for the specific acoustic frequencies associated with breaking glass. When these frequencies are detected, the sensor triggers an alarm condition on the connected security system.

- **Normal Operation:** The sensor remains in a standby state, monitoring its environment.
- **Alarm Condition:** Upon detecting glass breakage, the sensor's relay changes state, signaling the alarm control panel.
- **LED Indicator:** A built-in LED typically illuminates during detection or test mode to provide visual feedback. Refer to the sensor's internal documentation for specific LED behavior.

6. MAINTENANCE

The Honeywell Intellisense FG-1625 sensor requires minimal maintenance to ensure continued reliable operation.

- **Cleaning:** Periodically wipe the sensor's exterior with a soft, dry cloth to remove dust. Do not use abrasive cleaners or solvents.
- **Testing:** It is recommended to test the sensor annually using a glassbreak simulator to confirm its detection capabilities. Follow the instructions provided with your simulator.
- **Environmental Checks:** Ensure the sensor's environment remains free from excessive vibrations, loud noises (unrelated to glass breakage), or obstructions that could interfere with its acoustic detection.

7. TROUBLESHOOTING

If the sensor is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Sensor does not respond to glass breakage.	<ul style="list-style-type: none"> No power to the sensor. Incorrect wiring. Sensitivity set too low. Obstruction blocking sound. 	<ul style="list-style-type: none"> Check power connections and supply. Verify wiring against Section 4.2. Adjust sensitivity (Section 4.3). Ensure clear line of sight to protected glass.
False alarms.	<ul style="list-style-type: none"> Sensitivity set too high. Excessive ambient noise or vibration. Sensor mounted too close to noise sources. 	<ul style="list-style-type: none"> Reduce sensitivity (Section 4.3). Relocate sensor away from noise sources. Ensure proper mounting to minimize vibration.
LED not illuminating during test.	<ul style="list-style-type: none"> No power. Faulty sensor. 	<ul style="list-style-type: none"> Check power connections. Contact technical support if power is confirmed.

8. SPECIFICATIONS

Feature	Detail
Model Number	FG-1625 (000102701)
Brand	Ademco (Honeywell)
Sensor Type	Acoustic Glassbreak
Coverage Area	Up to 25 feet radius
Power Source	Corded Electric (typically 12V DC from alarm panel)
Color	White
Dimensions (L x W x H)	1 x 4 x 3 inches
Item Weight	2.88 ounces (approx. 0.18 lbs)
Alarm Output	Normally Closed (NC) Relay
UPC	781410449596

9. WARRANTY INFORMATION

Specific warranty details for the Honeywell Intellisense FG-1625 sensor are typically provided at the point of purchase or within the product packaging. Generally, Ademco (Honeywell) products come with a limited manufacturer's warranty covering defects in materials and workmanship for a specified period from the date of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty terms, contact your dealer or the manufacturer directly.

10. TECHNICAL SUPPORT

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact your authorized Ademco/Honeywell dealer or security system installer. You may also visit the official Honeywell Security website for support resources.

