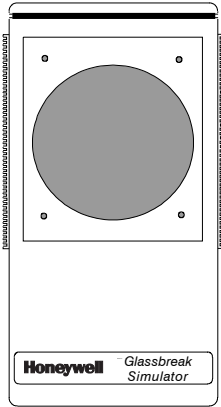


# Honeywell



## OPERATING INSTRUCTIONS

### FG-701 Glassbreak Simulator

**WARNING:** The FG-701 Simulator produces extremely loud sounds and can be hazardous to hearing when used at close range. Never operate the FG-701 with it pointed toward someone's head.

## FEATURES

- Digital audio produced glass-break sound
- MANual and FLEX test modes
- Sound activation of test mode for FG-1000 series detectors
- Low battery voice announcement
- Automatic turn-off to conserve battery life
- Compatible with all FlexGuard® glassbreak detectors

## OPERATING THE SIMULATOR

Model FG-1000 or higher glassbreak detectors must be activated for testing.

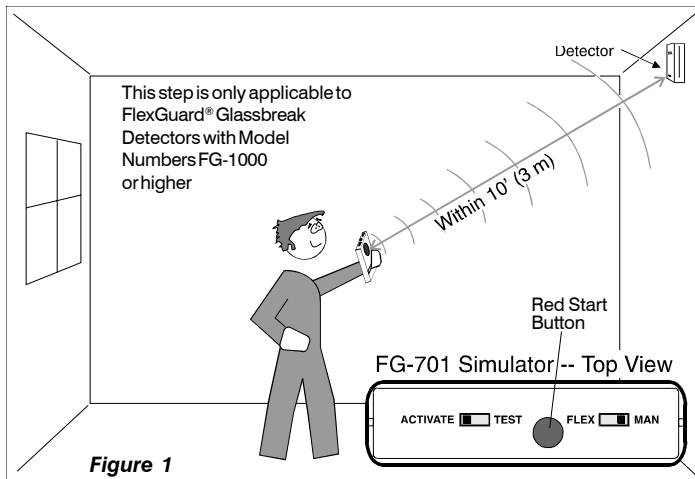


Figure 1

### To Activate the Model FG-1000 (or higher) Glassbreak Detector:

1. Install the glassbreak detector in an appropriate location (refer to the detector's installation instructions).
2. Stand within 10' (3 m) of the detector.
3. Set the FG-701 switches to the ACTIVATE and MANual modes (see Figure 1).
4. Aim the front speaker of the FG-701 Glassbreak Simulator at the detector.
5. Press the red start button for the ACTIVATE sound.

The green LED on FG-1000 series detectors will flash rapidly to indicate the detector is in test mode.

**Note:** Pressing the red button again will deactivate the detector test mode. The FG-1000 series test mode also turns off automatically after ten minutes.

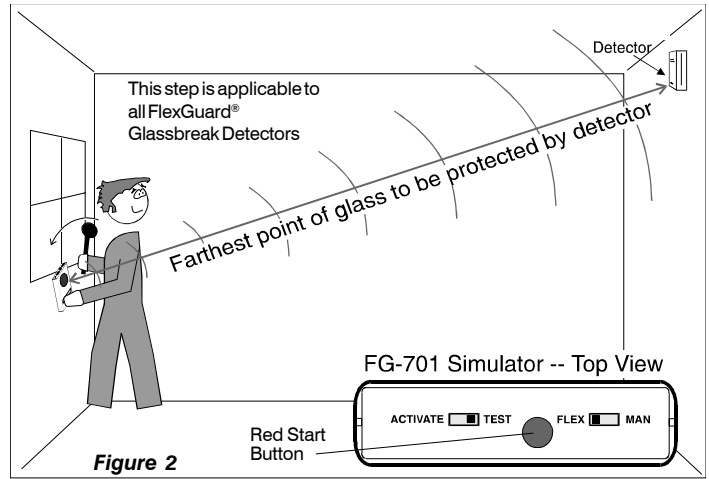


Figure 2

### Testing in FLEX mode:

1. Set the FG-701 switches to the TEST and FLEX modes. (See Figure 2.)
2. Press the red start button. The simulator will "click" on and start an eight-second armed period.
3. Position the FG-701 near the farthest point of the protected glass, and point the speaker directly at the glassbreak detector.
4. Generate a flex signal by carefully striking the glass with a cushioned tool. The FG-701 will respond by producing a burst of glass-break audio.

If both the flex and audio are received properly, the red alarm LED on the detector will light.

After the simulator is triggered by a flex signal, there is a one-second hold-off period during which the FG-701 will not retrigger. This prevents repeated triggering due to continued vibration of the glass.

Successfully triggering the simulator with a flex signal generates a new eight-second armed period. If you do not generate a flex signal within eight seconds, the simulator will automatically "click" off. Press the start button to re-arm the simulator.

The FG-701 may be turned off by either waiting for it to "click" off in FLEX mode, or by selecting MANual mode.

**Important:** If window coverings are present, close them fully and hold the FG-701 **behind** the window coverings for testing.

### Testing in MANual mode:

If the glassbreak detector fails to signal an alarm when testing in the FLEX mode, switch the FG-701 to the MANual mode. This will enable you to determine if the problem is flex or audio detection.

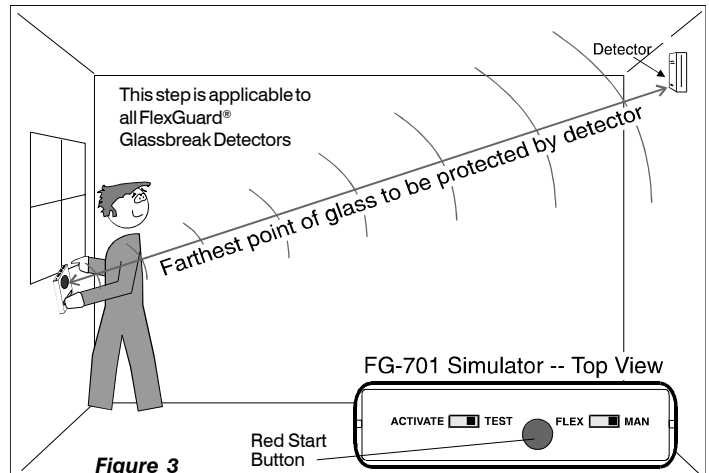


Figure 3

### Testing in the MANual Mode (Continued):

1. Set the FG-701 switches to the TEST and MANual modes. (See Figure 3.)
2. Position the FG-701 near the protected glass and point the speaker directly at the glassbreak detector. Watch the green LED on the detector.
3. Press the red start button and the FG-701 will generate a burst of glass-break audio.

If the LED on the detector flashes, the range is acceptable for audio. If the LED does not flash, move the detector closer to the glass and try again. (On FG-1000 series detectors, the green LED will momentarily turn off.)

### TECHNICAL NOTES

When a pane of glass is broken by an impact, many variables affect the sound it produces. Depending on the type of glass, its size and thickness, type of mounting, the breaking instrument, and the force with which it is struck, the sound it produces varies. In addition, the sounds will be modified by absorptive or reflective surfaces in the room where the glassbreak detector is located.

While no simulator can account for all possible conditions, the sound produced by the FG-701 is carefully designed to represent the more difficult cases. The sound is an enhanced digital recording of a small pane of tempered glass broken in a controlled environment. The output level of the simulator is correlated with the original sound to insure an equivalent response in FlexGuard® detectors. In production, the acoustic output is factory-calibrated to insure uniform performance.

Room characteristics greatly affect the apparent detection range indicated by the simulator. In a room with hard walls, floor, and ceiling, the audio range will be much greater than in a room with absorbing surfaces such as carpets and acoustic tiles. This is because hard surfaces reflect the sound back into the room, reinforcing it at points far from the simulator. Actual glassbreak sound is affected in the same way as the simulator sound, since it has the same frequency content and originates from the same location in the room. Thus the audio range achieved with the FG-701 is a good indication of glassbreak detection range, independent of the room characteristics.

In FLEX mode, the low-frequency signal is generated by striking the protected glass. If sufficient flex can be generated by a safe, non-breaking blow to the glass, there is good assurance that an actual break will be detected.

Range indicated by the simulator should be considered the safe detection range for an individual detector. Because of component tolerances, it should not be assumed that a substitute detector will work at the same range. If a detector is changed, the replacement should also be tested with the FG-701.

### BATTERY ANNOUNCEMENT

When the battery is low, the simulator sound will be interrupted by the word "BATTERY." The battery should then be replaced.

**Use only 9V alkaline batteries.** Do not use carbon-zinc or rechargeable Ni-Cd batteries because they don't have sufficient peak power capacity.

### PRODUCT SPECIFICATIONS

#### Temperature Range

*Operating:* 32° F to 122° F (0° C to +50° C)

*Storage:* -4° F to +140° F (-20° C to +60° C)

#### Battery Type:

9V Alkaline, Duracell MN1604 or equivalent

#### Estimated Battery Life:

2500 operations (MANual mode)

#### Output Spectral Range:

1.5 - 16 kHz

#### Output Level:

Peak SPL of 102 dB at 1 meter, on axis

#### Dimensions:

3.25" W x 6.3" H x 0.9" D (83 mm x 160 mm x 23 mm)

#### Weight:

8 oz. (.23 kg)

#### Approvals/listings:

CE

C-Tick



Customers in European Union countries are advised to dispose of this product, at the end of its useful life, as per applicable local laws, regulations and procedures.

To obtain applicable EU compliance Declaration of Conformities for this product, please refer to our Website, <http://www.security.honeywell.com/hsce/international/index.html>.

For any additional information regarding the compliance of this product to any EU specific requirements, please contact:

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