Glass Break Detector   2GIG-GB1-345

2gig

Operating Instructions

The 2GIG-GB1-345 Glass Break Detector is a fully supervised, tamper-protected, ceiling- or wall-mounted unit with 15 ft. maximum detection range, 360° maximum horizontal sensing angle, and dual-stage glass break detection with optional crash only setting.

Installation/Mounting & Programming Guidelines

To setup the glass break detector:
1. Hold the 2GIG-GB1-345 Glass Break Detector unit upside down and twist the base counter clockwise to remove it.
2. Install recommended batteries making sure to observe the correct polarity.
3. Wait 5 seconds for the power up delay.
4. Enter the programming mode for a wireless device on the 2GIG alarm control panel.
5. Enroll the Glass Break Detector by pressing and holding the tamper switch for 2 seconds (see *Figure 4*).

To Mount the glass break detector:
1. Place the Glass Break Detector base on the opposite wall or adjacent wall to the window being protected.
2. Affix the base to the desired location utilizing the 3 long mounting screws with anchors that are supplied. **NOTE: For wall mounting the test button should be oriented down nearest the floor.**
3. When attaching the detector to the base, match the alignment marks and twist clockwise. If batteries are not present, the red tabs must be held away from the detector.
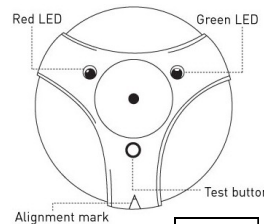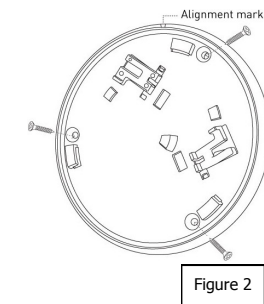
Red LED   Green LED
Test button
Alignment mark
Figure 1

Alignment mark
Figure 2

Testing

Walk Test
1. Push the test button for 2 seconds and then release it. The red LED will light while the button is pressed. The green LED will blink once to indicate that the unit is in auto test mode for 90 seconds (see *Figure 1*).
2. Activate a glass break simulator in the area of the window or windows that you are attempting to protect with the glass break detector. The Glass Break Detector should first acknowledge the detection of a thud sound by illuminating the green LED and then illuminate the red LED when the unit detects the crash portion of the glass breaking sound (see *Figure 1*).
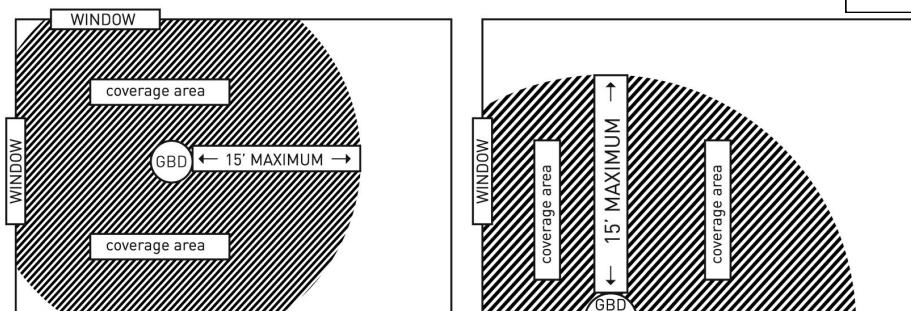
RF Test
Push and hold the test button for 5 seconds and then release it. The red LED will light while the button is pressed. The green LED will blink twice to indicate that the unit is in RF test mode for 90 seconds (see *Figure 1*).

Program Single Stage
By default the Glass Break Detector is a two stage sensor, requiring first a thud sound followed by a crash sound to trigger a glass break detection. To program the Glass Break Detector to require only a crash sound to trigger a glass break detection, perform the following:
1. Push the Test Button for 10 seconds and then release it. The Red LED will light while the button is pressed. The Green LED will blink three times to indicate that the Glass Break Detector has been reprogrammed for Single Stage operation.
2. The Glass Break Detector will remain in Single Stage operation until a power cycle occurs (battery is removed for at least 20 seconds then re-installed).

WINDOW
coverage area
WINDOW
GBD ← 15' MAXIMUM →
coverage area
WINDOW
coverage area
15' MAXIMUM
coverage area
GBD
Figure 3

Glass Type/Thickness

Minimum size for all glass types is 11" x 11" (28 cm x 28 cm) square; glass must be framed in the wall of the room or mounted in a barrier of 36" (.9 m) minimum width.

Type	Minimum to Maximum Thickness
Plate	1/8 in. to 1/4 in. (3.2 mm to 6.4 mm)
Tempered	1/8 in. to 1/4 in. (3.2 mm to 6.4 mm)
Laminated†	1/8 in. to 1/4 in. (3.2 mm to 6.4 mm)
Wired	1/4 in. to 1/4 in. (6.4 mm to 6.4 mm)
Coated‡	1/8 in. to 1/4 in. (3.2 mm to 6.4 mm)
Sealed Insulating†	1/8 in. to 1/4 in. (3.2 mm to 6.4 mm)

† Laminated and sealed insulating glass types are protected only if both plates of glass are broken.
‡ For glass coated on the inner surface with 3M Scotchtint™ type RE35NEARL or Hardglass Security Film, reduce effective range to 15 ft. (4.6 m) max.
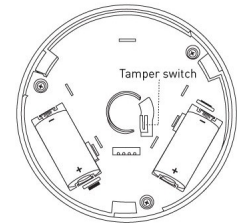
Tamper switch
Figure 4

Battery Installation & Replacement

Remove the cover by twisting counterclockwise. Use only the recommended replacement batteries (see *Specifications*). Be sure to observe the polarity.

WARNING! The polarity of the battery must be observed, as shown (See *Figure 4*). Improper handling of lithium batteries may result in heat generation, explosion or fire, which may lead to personal injuries. Replace only with the same or equivalent type of battery as recommended by the manufacturer. (see *Specifications*)

Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area.

Keep away from small children. If batteries are swallowed, promptly see a doctor.

California Only: This Perchlorate warning applies only to Manganese Dioxide Lithium cells sold or distributed ONLY in California, USA. Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Specifications

Wireless Signal Range	700 ft., open air, with 2GIG Wireless Alarm Control Panel
Code Outputs	Alarm; Alarm Restore; Tamper; Tamper Restore; Supervisory; Low Battery
Transmitter Frequency	345.000 MHz (crystal controlled)
Transmitter Frequency Tolerance	± 15 kHz
Transmitter Bandwidth	24 kHz
Modulation Type	Amplitude Shift Keying—On/Off Keying (ASK-OOK)
Unique ID Codes	Over one (1) million different code combinations
Supervisory Interval	70 minutes
Peak Field Strength	Typical 50,000 uV/m at 3m
Sensor Type	Selectable: (1) single microphone, dual stage thud, and crash (default); (2) single stage crash only
Mounting Height	7 ft. (2.13 m) Minimum to 10 ft. (3.05 m) Maximum
Sensor Range	15 ft. (4.57 m)
Maximum Horizontal Sensing Angle	360°
Dimensions (DxH)	4.55 x 1.9 in. (11.56 x 4.83 cm)
Weight (including battery & bracket)	5.1 oz. (144.6 g)
Housing Material	ABS plastic
Color	White
Operating Temperature	32° to 120°F (0° to 49°C)
Relative Humidity	5-95% Non-Condensing
Battery (included, not installed)	Two (2) Panasonic CR123A, 3 VDC, 1550 mAh or equivalent Lithium cylindrical batteries
Battery Life	5 years
Regulatory Listing(s)	ETL, FCC Part 15, Industry Canada
Approved Glass Break Simulator	Intellisense FG-701
Warranty*	Two (2) years
Included Accessories	Three (3) Phillip's head screws, three (3) plastic wall anchors

FCC COMPLIANCE STATEMENT*

This device complies with FCC Rules and Regulations as Part 15 devices, as well as Industry Canada Rules and Regulations. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: Changes or modifications to the device may void FCC compliance.

FCC ID: WDQ-GB1345
Industry Canada ID: 7794A-GB1345

*For more warranty and compliance information, visit our website (www.2gig.com).

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