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GEM-GB2

Wireless Glass-Break Detector Installation Instructions



WI2998LF 6/26

The **GEM-GB2** Glass Break sensor detects the sound of breaking glass and sends alarm signals to the security control panel.

Features

- Variable detection range of up to 20 feet (6.1m)
- Low battery and tamper indication
- 3M™ VHB™ (Very High Bond) heavy-duty, double-sided acrylic foam tape included for easy installation

Specifications

Physical

Dimensions: 4.1 x 2.3 x 1.0 in. (10.6 x 6.0 x 2.6cm)
Weight with Battery: 2.75oz. (78g)
Provided Fasteners: #6 screws, anchors, VHB™ tape

Environmental

Operating Temperature: 32°F to 120°F (0°C to 49°C)
Maximum Humidity: 85% non-condensing RH

Sensor

Frequency: 319.5MHz
Replacement Battery: One Panasonic® CR123A
Nominal Battery Life: 3.5 years
Battery Voltage: 3VDC (Nominal), 2.2VDC (Low)
Current Draw: 30mA (Maximum), 50uA (Idle)
Transmitted Indications: Low Battery, Tamper, Supervision, Alarm

Sensitivity

Select sensitivity by adjusting the DIP switches. See table below for sensitivity settings and illustration at right for location of DIP switches.

SENSITIVITY	DETECTION RANGE	DIP SWITCH 1	DIP SWITCH 2
Maximum	20ft. (6.1m)	OFF	OFF
Medium	13ft. (4.0m)	OFF	ON
Low	8ft. (2.4m)	ON	OFF
Lowest	5ft. (1.5m)	ON	ON

Mounting

Mount at a height of at least 6.5 feet (2m) and no more than 20 feet (6m) from the protected window. Ensure the sensor has visual line-of-sight to all windows being protected. Use a glassbreak tester to confirm operation before permanently mounting using the mounting screws or VHB tape. 3M™ VHB Tape works best only when the mounting surface is properly prepared and firm pressure is applied for over 10 seconds. Before mounting, be sure to clean the surface and ensure the surface temperature is above 50°F (10°C).

Enrolling

Each **GEM-GB2** has a unique factory-programmed code (printed on the battery holder and also on the rear case) that distinguishes itself to the receiver. See control panel

instructions for entering this six-digit hexadecimal code and its checksum digit into the control panel; be sure to enter all numbers and/ or letters, including leading zeros, if any.

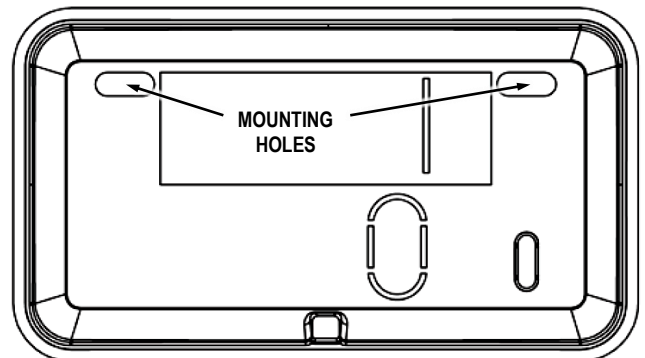
Testing

Always verify operation after enrollment and installation; any glassbreak tester can be used:

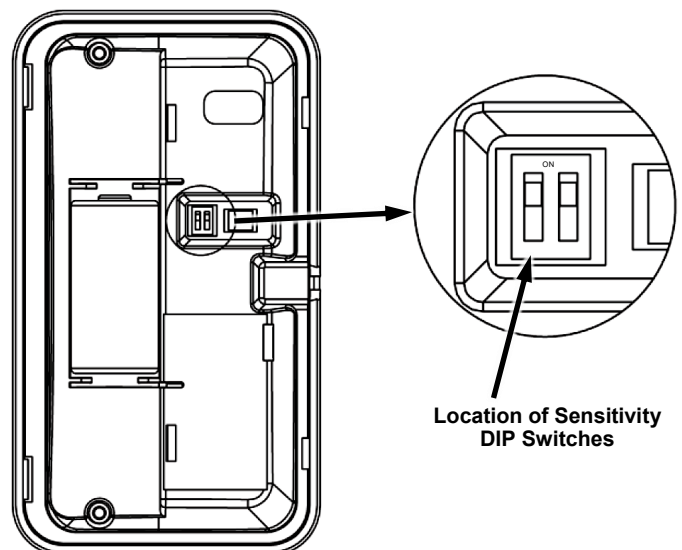
1. The sensor is in test mode for 5 minutes after powering. In test mode, the LED will flash once per second.
2. Activate the glassbreak tester near the window you wish to protect.
3. If an alarm is detected, the LED will flash rapidly for 2 seconds and an alarm signal will be sent to the control panel. If the sensor does not trip, check the sensitivity settings or relocate the sensor and retest.

Normal Operation

When test mode ends and the sensor is in normal operation, upon detecting breaking glass the LED will turn on for 5 seconds and an alarm signal will be sent to the control panel. Use the security control panel installation instructions to verify proper system setup.



Mounting Hole Locations



Location of Sensitivity
DIP Switches

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NAPCO SECURITY TECHNOLOGIES, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for *thirty-six months* following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

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Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

In case of defect, contact the security professional who installed and maintains your security system. In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

Warning: Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

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Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

IC NOTICE

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux cnr d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage, et
- L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC: 8310A-RE129

FCC NOTICE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

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

FCC ID: U5X-RE129