



RF1100 Glassbreak Transmitter



The RF1100 Glassbreak Transmitter is a wireless transmitter that detects breaking glass. It is equipped with two tamper switches and four glassbreak sensitivity settings. When there is no alarm activity, the RF1100 transmits a signal every 15 min, providing system supervision and battery status information. The RF1100 is compatible with the RF3212, RF3222, and RF3224 Receivers.

Functions

LED Indicators

The RF1100 Glassbreak Transmitter has two LED indicators. For test purposes, the Event LED turns on when the RF1100 detects sound. The Alarm LED turns on when the RF1100 detects breaking glass. During normal operation, you can disable the LEDs to conserve battery life.

Glassbreak Sensitivity

Use the convenient DIP switches to select a sensitivity setting.

- There are four sensitivity settings: maximum, medium, low, lowest.
- Use the Event LED to help you select an appropriate sensitivity setting. When the LED flashes, the noise in the area is loud enough to initiate a glassbreak response from the transmitter.

- ▶ **DIP switches for selecting glassbreak sensitivity**
- ▶ **Four glassbreak sensitivity settings**
- ▶ **Two light emitting diode (LED) indicators**
- ▶ **Two tamper switches**
- ▶ **Test mode**
- ▶ **Dual acoustic technology**

- The RF1100 Glassbreak Transmitter has an LED ENABLE switch that activates or deactivates the LEDs. When the LED ENABLE switch is set to ON, a plastic orange tab protrudes from the side of the RF1100 Glassbreak Transmitter. The tab visually reminds you that the LEDs are active.

Test Mode

Activate the test mode locally using the RF1100 test pads or remotely using a Bosch 13-332 Sound Sensor Tester. When the RF1100 is in test mode, use the 13-332 Sound Sensor Tester to verify that the RF1100 detects flex wave and audio signals correctly.

Dual Acoustic Technology

When an object hits a pane of glass, the glass absorbs the blow and emits a low frequency sound pressure wave, called the flex wave. When the force of the blow is too great, glass shatters and emits a high frequency audio signal. A bell ringing or a vase breaking produces a similar audio signal, but does not produce a flex wave. The RF1100 Glassbreak Transmitter detects the flex wave first and the audio signal second, reducing false alarms from items that only emit high frequency audio signals.

Tamper Switches

The RF1100 Glassbreak Transmitter has a cover tamper switch and an optional wall tamper switch. When either switch activates, the RF1100 transmits tamper information.

Low Battery Indication

The Event LED and the Alarm LED flash simultaneously when the RF1100 battery is low. Set the LED ENABLE switch to ON to activate the LEDs.

Certifications and Approvals

Region	Certification	
USA	FCC	ESV-RF1100
Canada	IC	1249A-RF1100

Installation/Configuration Notes

Note Glassbreak detectors are intended only as a component of a perimeter protection system. They should always be used in conjunction with motion sensors.

Acoustic Capabilities

The RF1100 Glassbreak Transmitter can be used with the following glass types:

Glass Type	Glass Thickness
Plate	2.4 mm to 9.5 mm (0.09 in. to 0.38 in.)
Tempered	3.2 mm to 9.5 mm (0.13 in. to 0.38 in.)
Laminated	3.2 mm to 14.3 mm (0.13 in. to 0.56 in.) Protected only if both panes of unit are broken
Wired	6.4 mm (0.25 in.)

Sensitivity Settings

Sensitivity Setting	Range
Maximum	7.6 m (25 ft)
Medium	4.6 m (15 ft)
Low	3 m (10 ft)
Lowest	1.5 m (5 ft)

Compatibility Information

Receivers	Control Panels
RF3212	Solution Ultima 844, 862, and 880, CC488
RF3213	VR-8
RF3222	DS7400XiV4
RF3224	DS7240, DS7220, D6412, and D4412

Recommended Products

- Bosch 13-332 Sound Sensor Tester
- Duracell® MN1500 or PC1500, Eveready® E91, or Panasonic® AM-3PIXB batteries

Mounting Considerations

For the best performance, mount the RF1100:

- On flat surfaces, such as ceilings or walls.

- Within clear view of the glass (there is no minimum range).
- Within 7.6 m (25 ft) of the glass.

Note If the window is covered with heavy drapes, curtains, shades, blinds, and so on, mount the RF1100 on the window frame.

Do not mount the RF1100:

- In a corner or in rooms with loud equipment such as air compressors, bells, and power tools.
- On the same wall as the glass.
- On freestanding posts or pillars.

The maximum range, in open air, is approximately 150 m (500 ft). In normal household or commercial applications, put the RF1100 within 30 m (100 ft) of the corresponding receiver.

Technical Specifications

Electrical

Batteries:	Two AA, 3 V alkaline batteries
Battery Life:	Minimum of 2 years under normal operating conditions. Test with the recommended battery types.

Mechanical

Dimensions:	12.2 cm x 10.6 cm x 3.2 cm (4.8 in. x 4.2 in. x 1.3 in.)
Frequency:	304 MHz

Environmental

Temperature (operating):	0°C to +50°C (+32°F to +120°F)
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Trademarks

Duracell® is a registered trademark of The Gillette Company.

Eveready® is a registered trademark of Eveready Battery Company, Inc.

Panasonic® is a registered trademark of Matsushita Electric Industrial Co., Ltd.

Ordering Information

RF1100 Glassbreak Transmitter	RF1100
Equipped with two tamper switches and four glassbreak sensitivity settings	

Accessories

Glassbreak Simulator	13-332
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