



Product Summary Sheet

July 7, 2003 Rev001

WLS912(L)-433 – Wireless Glassbreak Detector

The WLS912-433 is a wireless glassbreak detector based on the Acuity platform. The 'L' designator in the part number indicates the unit is powered by two lithium batteries. It is an advanced acoustic glass break sensor, designed to detect the sounds produced by the shattering of framed glass. The unit uses DSP (patented Dynamic Signal Processing) to provide accurate detection of plate, laminated, wired (safety) and tempered glass types, while rejecting common false alarm sounds.

The detector requires three elements to go into alarm – it must hear a large number of different frequencies, the amplitude must be at least 90dB at 10' and the sound must 'drop off' within approximately 3 seconds.

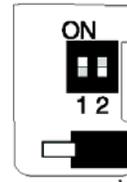
Compatibility (Version Identification):

WLS912-433 3 'AA' batteries
WLS912L-433 2 lithium batteries

Maximum Detection Range:

Glass Type	Thickness	Size (l x w)	Level 1	Level 2
Plate/ Tempered	1/8-1/4"	18"x18" min	25 ft	15ft
	3-6mm	46x46 cm min	7.6m	4.6m
		12"x12" to 18"x18"	15ft	10ft
Wired/ Laminate	1/4" 6mm	30x30cm to 46x46cm	4.6m	3m
		18"x18" min	20ft	Do Not Use
		46x46 cm min	6m	Do Not Use
		12"x12" to 18"x18"	10ft	Do Not Use
		30x30cm to 46x46cm	3m	Do Not Use

Dip Switches:



Dip Switch 1: Not Used
Dip Switch 2: OFF - Level 1 (High Sensitivity)
 ON - Level 2 (Low Sensitivity)

Level 2 sensitivity (low) is used for smaller areas (bathrooms, kitchens) or other areas that contain a significant number of sound-reflective surfaces.

Coverage Pattern Test:



It is not possible to recreate the sound of breaking glass using a tester. The AC-100 has a 'test' mode. When in test, the unit will amplify the incoming sounds to compensate for the reduced output of the AFT-100 tester.

- To put the detector into 'test' mode, create a momentary tamper by quickly pressing and releasing the tab on the base of the unit.
- The LED will flash once every 10 seconds to indicate that the device is in 'test' mode. The unit will remain in test mode for 10 minutes.
- During the test mode, use the AFT-100 Glassbreak Simulator to field test the detector.
- Trigger the AFT-100 Glassbreak Simulator at the glass. The LED will turn on when the sound of breaking glass is detected. Make sure to close all window coverings to simulate the environment when no one is home.
- The correct mounting location is indicated by three successive detections.

Troubleshooting:

- If a tester other than the AFT-100 is used, it may not reliably indicate the actual coverage pattern of the detector.
- The glass must be at least the minimum size indicated.
- The glass must be framed – framed glass adds strength and requires more force to break, causing higher amplitude (90dB at 10') sound.
- The glass must break. The unit will not detect something like a bullet hole.
- The detector will not respond to the Glassbreak Simulator if the test mode has not been enabled.
- The detector should have a direct line of sight to the protected glass.
- The detector should be mounted at least 1.8m (6 ft) high.
- Do not mount detector on same wall as protected glass.
- Test for false alarm immunity when the detector is **not in test mode** by creating sounds that are likely to occur in the area.
- When testing the placement of the detector ensure at least three good placements in a row.
- When testing the detector with the Glassbreak Simulator ensure at least three positive test results.