

The EL-2606 is a low current acoustic glassbreak sensor with an incorporated wireless transmitter. This unit is designed for use with Electronics Line 3000's supervised wireless range of receivers. The EL-2606 sends a status transmission to the receiver every hour to indicate that the transmitter is functional.

Mounting Considerations

The EL-2606 acoustic sensor is omni-directional, providing 360° coverage. The coverage is measured from the sensor to the point on the glass farthest from the sensor. The sensor can be mounted as close as 1m (3.3') from the glass.

Sensor range:

- If mounting on the ceiling, the opposite wall or adjoining walls, the maximum range is 6m (20') for plate, tempered, laminated and wired glass.
- For armor-coated glass, the maximum range is 3.65m (12').

Minimum recommended glass size:

- 0.3m x 0.6m (1' x 2')

Glass thickness:

- Plate: 2.4mm to 6.4mm (3/32" to 1/4")
- Tempered: 3.2mm to 6.4mm (1/8" to 1/4")
- Wired: 6.4mm (1/4")
- Laminated: 3.2mm to 6.4mm (1/8" to 1/4")

For best detection:

- The sensor must always be in direct line of sight of all windows to be protected.
- If mounting on the wall, try to install the sensor directly opposite the protected window. If this is not possible, adjoining side walls are also a good location.
- If mounting on the ceiling, install the sensor 2-3m (6-10') into the room.
- Avoid installing in rooms with lined, insulating or sound deadening drapes.
- Avoid installing in rooms with closed wooden window shutters inside.
- Avoid installing in the corners of a room.

The EL-2606 is best suited to rooms with moderate noise.

Note: The sensor may not consistently detect cracks in the glass, bullets which break through the glass or glass breaking around corners and in other rooms. Glassbreak sensors should always be backed up by interior protection.

For best false alarm immunity:

- Locate the sensor at least 1.2m (4') away from noise sources (televisions, speakers, sinks, doors, etc.).
- Avoid rooms smaller than 3m x 3m (10' x 10') and rooms with multiple noise sources.
- Do not use where white noise, such as air compressor noise, is present (a blast of compressed air may cause a false alarm).
- Do not define the zone as 24hr. It is recommended to register the EL-2606 to a perimeter arming group that arms the perimeter doors and windows of the premises.
- Avoid humid rooms – the EL-2606 is not hermetically sealed. Excess moisture can eventually cause a short and a false alarm.

Areas to avoid:

- Glass airlocks and glass vestibule areas



Electronics Line

Electronics Line 3000 Ltd.: 2 Granit Street, Kiryat ArieH, POB 3253, Petah Tikvah 49130 Israel. Tel: (972-3) 918-1333, Fax: (972-3) 922-0831
USA: 5637 Arapahoe Avenue, Boulder, Colorado 80303. Tel: (800) 683-6835, Fax: (303) 938-8062
UK: Unit 7, Levisss Trading Estate, Station Road, Stechford, Birmingham B33 9AE. Tel: (44-121) 789-8111, Fax: (44-121) 789-8055
France: ZI-61, rue du Marché Rollay, 94500 Champigny-Sur-Marne. Tel: (33-1) 45.16.19.20, Fax: (33-1) 45.16.19.29

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In no event shall Electronics Line 3000 Ltd. (EL3K) be liable for an amount in excess of EL3K's original selling price of this product, for any loss or damage whether direct, indirect, incidental, consequential or otherwise arising out of any failure of the product. Herety, Electronics Line 3000 Ltd. declares that this sensor/transmitter is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. 868.35MHz frequency transmitters are not intended for use in Bulgaria, Greece, Poland and Slovenia.

- Noisy kitchens
- Residential car garages
- Small utility rooms
- Stairwells
- Small bathrooms
- Other small acoustically live rooms

For glass break protection in such applications, use shock sensors on the windows or window frames.

Installation Instructions

1. Open the housing using a small flat-head screwdriver to separate the base from the cover.
2. Remove the divider separating the battery from the contacts on the battery holder. **Note: Due to the occurrence of voltage delay in lithium batteries that have been in storage, the batteries may initially appear to be dead. In this case, press the tamper switch for a few times until the battery voltage level is stabilized.**
3. Set the receiver to Registration mode and press the tamper switch twice. Make sure that the Registration procedure is completed (if necessary, press the tamper again). Write the number of the zone on the sticker provided. Affix the sticker inside the front cover for future reference. **Note: Alternatively, the EL-2606 can be registered to the receiver by manually entering the transmitter's serial number.**
4. Choose a suitable mounting location according to the guidelines in the previous section.
5. Before permanently mounting the unit, test the acoustic sensor and the transmitter from the exact mounting position. For further information on testing the acoustic sensor, refer to the following section, Testing Procedures.
6. Knock out the required mounting holes on the back cover.
7. Mount the unit to the wall using the mounting screws provided.
8. Close the front cover making sure that it snaps shut.

Testing Procedures

The Pattern Recognition Technology™ of the EL-2606 ignores most of the sounds that could cause a false alarm (including glass-break testers). In order to test the EL-2606, you must set the unit to Test mode. In Test mode, processing of the upper and lower frequencies is disabled. This means that the EL-2606 is only listening for mid-range frequencies reproduced by the glassbreak tester. It's these mid-range frequencies that determine the sensor's range: **Note: In Normal mode, the tester will not activate the sensor unless held directly over the sensor.**

Test the sensor using the Electronics Line GBS-7 or Sentrol 5709C hand-held tester.

To test the sensor:

1. If using the 5709C tester, set the tester to tempered glass. The 5709C tester has a different setting for each type of glass. The tester should always be set for tempered or laminated glass (either is correct and both have the same range) unless the installer is certain that all the glass to be protected is plate glass.
2. Hold the tester speaker directly on top of the sensor and activate the tester; the sensor generates an alarm and then enters test mode for one minute. When in test mode, the LED on the sensor flashes continuously. You can extend the test mode time by firing the tester at the sensor at least once a minute. **Note:**

Each time the sensor generates an alarm, it also goes into Test mode for one minute.

3. Hold the tester near the surface of the glass and aim the tester at the EL-2606. If drapes or blinds are present, test with the hand-held tester behind the closed drapes or blinds.

4. Hold down the test button. When the LED on the sensor goes solid momentarily, the glass is within detection range. If the LED does not go solid, but simply continues blinking, re-position the sensor closer to the protected windows and retest. This may require adding additional sensors in order to achieve adequate coverage. It is very rare that the sensor will not activate within its stated range of coverage. In this case check the battery in the hand-held tester. A new tester battery is likely to restore the range.

5. Test mode automatically terminates approximately one minute after the last activation of the hand-held tester.

Note: Room acoustics can artificially extend the range of a glassbreak sensor. The specified range of the EL-2606 has been established for worst-case conditions. While the sensor is likely function at the extended range, it may miss a minimum output break or room acoustics may be changed at some future time bringing sensor range back into normal 6m (20') conditions. Do not exceed the rated range of the sensor regardless of what the tester shows!

Hand Clap Test:

The Hand Clap test enables you to test the EL-2606 while in Normal mode. This test checks the sensor's power supply, microphone and circuit board.

To perform a Hand Clap test:

- Clap your hands loudly under the sensor; the LED flashes twice but an alarm is not generated.

Technical Specifications

Antenna: Built-in Internal Whip

Frequency: 418MHz FM

Power: 3.6V ½ AA Lithium Battery

Caution: Fire, explosion and severe burn hazard! Do not recharge, disassemble or heat above 100°C.

Current Consumption: 25mA (transmission) 30µA (standby)

Microphone: Omni-directional electret

RFI Immunity: 20V/m

Operating Temperature: 0-50°C

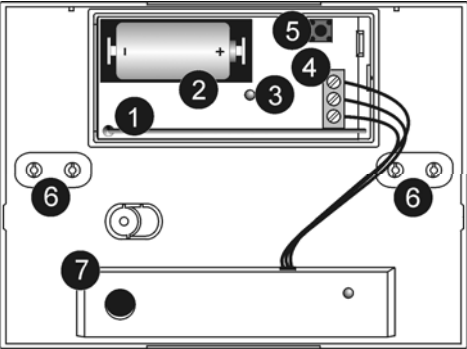


Figure 1: EL-2606 (cover off)
Figure 1: EL-2606 (sans couvercle)/Figura 1: EL-2661 (sin tapa)

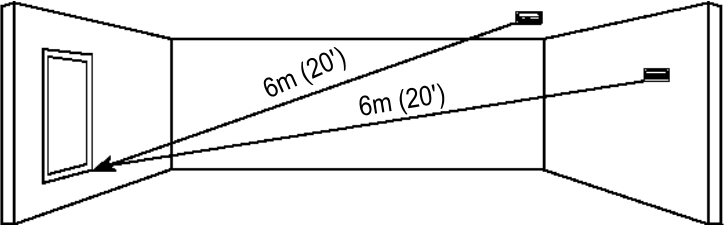


Figure 2: Acoustic Sensor Range Measurement (plate, tempered, laminated and wired glass)/
Figure 2: Mesures de portée du détecteur acoustique (verre de vitrine, tempéré, laminé et filaire)/
Figura 2:Rango de cobertura del sensor acústico (vidrio plano, templado, laminado y alambrado)

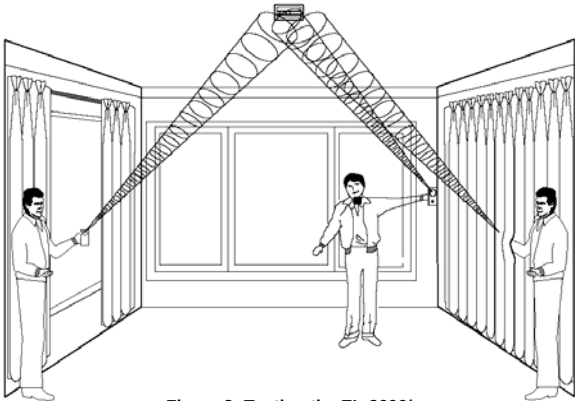


Figure 3: Testing the EL-2606/
Figure 3: Test du EL-2606/
Figura 3: Testeando el EL-2606

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1. Reorient or relocate the receiving antenna, 2. Increase the separation between the equipment and the receiver, 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, 4. Consult the dealer or an experienced radio/TV technician for help.
Warning: Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Electronics Line 3000 Ltd.) could void the user's authority to operate the equipment.