![Inovonics Wireless Corporation logo]

FA207 Frequency Agile® ShatterPro™ Glassbreak Transmitter
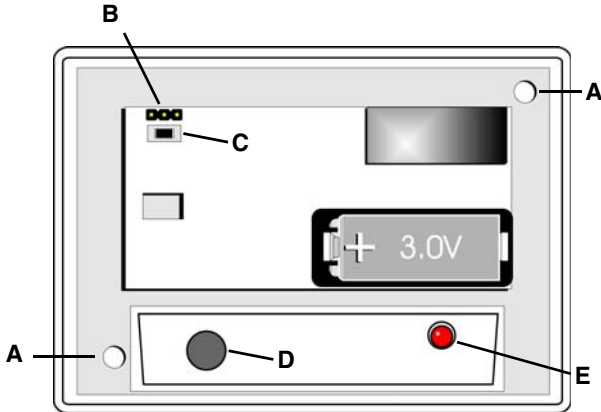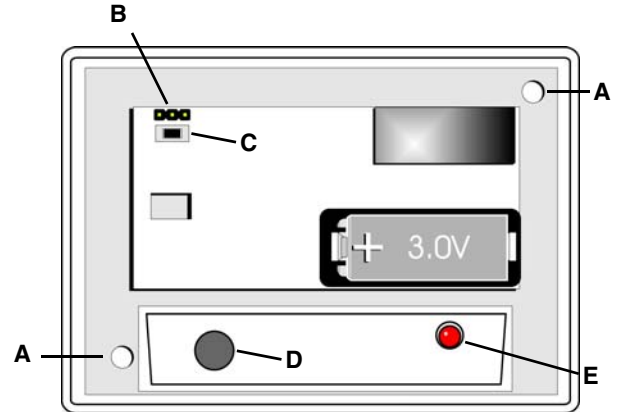Installation and Operation Manual - 01877D

1 Overview

The FA207 is a an acoustic glassbreak sensor that transmits digital RF messages to Inovonics Wireless FA receivers. The glassbreak sensor module is the wireless Shatterpro®, manufactured by GE Interlogix, Inc. The wireless transmitter module is manufactured by Inovonics Wireless Corporation

1.1 Inovonics Wireless Contact Information

If you have any problems with this procedure, contact Inovonics Wireless technical services:

- E-mail: support@inovonics.com
- Phone: (800) 782-2709; (303) 939-9336

Figure 1 FA207 Components
A. Mounting holes   **B.** Programming header   **C.** Reset button
D. Microphone   **E.** Sensor LED

2 Installation and Startup

2.1 Install the Battery

Before installing the FA207 glassbreak transmitter you will need to install the battery. To install the battery:

1. Press the housing release tab on the bottom of the FA207 housing; pull the housing apart.
2. Install the battery (Fig. 1).
3. Press the **Reset** button to initialize the transmitter (Fig. 1).

Note: You must press the **Reset** button each time the battery is changed.

2.2 Program the FA207

The FA207 must be programmed as follows to communicate with your FA system:

1. Remove the tamper jumper from the programming header.
2. Connect the programming device's cable to the FA207 programming header.
3. Program the FA207 using the control panel or receiver manual. The FA207 must be programmed as follows to communicate with your FA system:
- External contacts: Normally open
- End of line: No
- Internal contact: No
- Check-in time: 60 seconds (recommended)
4. Press the FA207 **Reset** button.
5. Disconnect the programming cable.
6. Replace the jumper on the center pin and either the inside or outside pin of the programming header.

Note: The FA207 retains programming data in non-volatile memory. It does not require re-programming after loss of power. Press **Reset** to re-initialize the FA207 and restore programming.

2.3 Mount the FA207

1. Use the provided anchors and screws to mount the FA207, paying careful consideration to the following best practices:
- To avoid false alarms, install the unit as a perimeter zone that is armed only when the perimeter doors and windows are armed. Installing the unit as a 24-hour zone can create false alarms.
- Mount the FA207 at least .91 m (3ft) from the window to be monitored, but no more than 7.62 m (25ft) away.
- Mount the FA207 at least 1.2 m (4 ft) away from noise sources (televisions, speakers, sinks, doors, etc.).
- Mount the FA207 so that it is in direct line of sight of all windows to be protected.

- The best location for mounting the FA207 is on the wall opposite of the window to be protected. The FA207 may also be mounted on the wall adjoining the window to be protected, or on the ceiling.
- The glass should have the following minimum dimensions:
  - Dimensions: 0.3 m x 0.6 m (1 x 2ft) or larger
  - Plate thickness: 2.4 mm to 6.4 mm (3/32" to 1/4")
  - Tempered thickness: 3.2 mm to 6.4 mm (1/8" to 1/4")
  - Wired thickness: 6.4 mm (1/4")
  - Laminated thickness: 3.2 mm to 6.4 mm (1/8" to 1/4")
- Avoid glass airlocks and glass vestibule areas, noisy kitchens and residential car garages.
- Avoid rooms smaller than 3 x 3 m (10 x 10 ft), such as small utility rooms, stairwells and small bathrooms.
- Because the unit is not hermetically sealed, avoid humid rooms.
- Avoid rooms where white noise, such as air compressor noise, is present. (A blast of compressed air may cause a false alarm.)
- Avoid rooms with noise insulation or sound-deadening drapes or with closed, wooden window shutters inside.
- Avoid placing the FA207 in the corner of a room.

2.4 Test the FA207

The FA207 should be tested following installation. Though full functionality testing requires use of the Sentrol 5709C acoustic glassbreak tester, which switches the unit into test mode and simulates alarm conditions via sonic bursts, the FA207 may be field-tested by doing the following:

1. Remove the programming header jumper to test the transmitter. This should cause a tamper fault (Fig. 1).
2. Clap your hands loudly in front of the sensor to test the microphone. The LED will blink twice, but the alarm will not trip (Fig. 1).

3 Specifications

Dimensions: 4.2" x 3.1" x 1.7"

Operating environment: 0°- 60°C (32°- 140°F), 90% relative humidity, non-condensing.

Battery: 3V lithium

Operating frequency 902-928 MHz

Microphone: Omnidirectional Electret

4 Warranty/Disclaimer

Caution: Changes or modifications to this unit not expressly approved by Inovonics Wireless Corporation may void the installer's authority to operate the equipment as well as the product warranty.

Inovonics Wireless Corporation ("Inovonics") warrants its products ("Product" or "Products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of twenty-four (24) months from the date of manufacture. Within the warranty period, Inovonics will repair or replace, at its option, all or any part of the warranted Product. Inovonics will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User ("User", "Installer" or "Consumer") must work directly through their authorized distributor who will be given a Return Material Authorization ("RMA") number by Inovonics. Details of shipment will be arranged directly through the authorized distributor.

This warranty is void in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, accident or tampering, and repair by anyone other than Inovonics.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied. There is no warranty by Inovonics that Inovonics product will be merchantable or fit for any particular purpose, nor is there any other warranty, expressed or implied, except as such is expressly set forth herein. In no event shall Inovonics be liable for an incidental, consequential, indirect, special, or exemplary damages, including but not limited to loss of profit, revenue, or contract, loss of use, cost of down time, or interruption of business, nor any claim made by distributor's customers or any other person or entity.

This warranty will not be modified or extended. Inovonics does not authorize any person to act on its behalf to modify or extend this warranty.

This warranty will apply only to Inovonics Products. Inovonics will not be liable for any direct, incidental, or consequential damage or loss whatsoever, caused by the malfunction of Product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Products.

Note: E-mail support@inovonics.com for a copy of the CE Declaration of Conformity.