

## EchoStream® EN1235SF/EN1235SF-15/ EN1235DF Fixed Location Alarm Transmitter Installation Instructions

### 1 Overview

The Inovonics EN1235DF double button fixed location alarm transmitter and EN1235SF single button fixed location alarm transmitter feature a rugged design and housing and wall tamper protection. The EN1235DF and EN1235SF are designed for fixed position signaling.

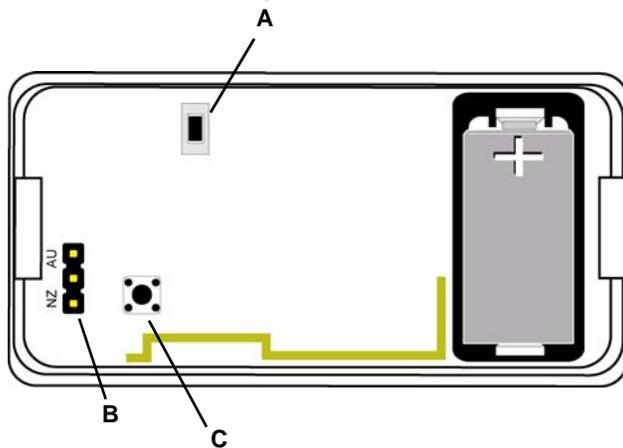
**Note:** For UL installations, refer to the *EN4216MR Installation and Operation Manual*, the *EN4232MR Installation and Operation Manual*, or the *EN7285 Installation Instructions*.

#### 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

#### 1.2 Transmitter Components



**Figure 1** Transmitter components

- A** Reset button      **B** Frequency band selection pins  
**C** Tamper switch

#### 1.3 What's In The Carton

Individually-packaged products include the following items:

- One fixed location alarm transmitter
- One housing screws
- Two mounting screws
- Two selection jumpers
- One 3.0V lithium battery

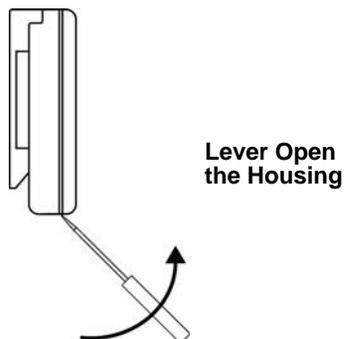
## 2 Installation and Startup

### 2.1 Installation Notes

- These products are designed to be maintained by professional security technicians.
- Products are intended for indoor use.
- Manually test all products weekly.

### 2.2 Install the Battery

1. Insert a small screwdriver into the notch on the bottom of the transmitter, press the housing release tab, and, without twisting, lever the housing apart..



**Figure 2** Open the Housing

2. Install the battery.
3. Press the reset button to initialize the transmitter.

### 2.3 Select the Frequency Band

EchoStream products are able to use a range of radio frequencies, and must be configured for your geographic area. This product ships with a default frequency range of 902-928 MHz for use in North America. If you are using the product in North America, skip to step 6. If you are using the product in Australia or New Zealand, you will need to configure the transmitter.

To configure the transmitter:

4. Place a selection jumper on the appropriate frequency band selection pins.
  - Place the jumper on the top two pins, marked AU, to set the frequency range to 915-928 MHz for Australia.
  - Place the jumper on the bottom two pins, marked NZ, to set the frequency range to 921-928 MHz for New Zealand.

**Note:** Only devices set for use in North America are configured for UL installations.

5. Press the reset button to complete configuration.

**Caution:** When pressing the reset button, make sure you don't also touch the frequency band selection pins. Touching the frequency band selection pins while pressing the **Reset** button can inadvertently set the transmitter to the wrong frequency band.

### 2.4 Mount the Transmitter

To operate correctly, the transmitter must be mounted.

**Caution:** The transmitter must be mounted to operate correctly. If not mounted, the transmitter will remain in a tamper state.

**Caution:** For UL installations, mount the EN1235DF/SF in a concealed area, where its operation cannot be viewed from a public space.

#### Printing Instructions

1. Print duplex
2. Align and orient back page to match front page.
3. Cut on dashed line
4. Fold cutsheet in half along the 8.5" axis.

To mount the transmitter:

6. Use the included hardware to mount the back plate of the transmitter housing to the mounting surface.
7. Hook the bottom of the transmitter into the back plate, then clip the top into place.

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**Caution:** The tamper spring must make contact with the mounting surface through the slot in the back plate. Make sure to first hook the bottom of the transmitter into the back plate and then clip the top into place to ensure the tamper spring makes contact.

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## 2.5 Register the Transmitter

The transmitter must be registered and supervised. When supervised, the transmitter will send check-in message to the receiver or gateway as follows:

- EN1235SF/EN1235DF: every three minutes.
- EN1235SF-15: every 15 minutes.

Each transmitter has a unique factory-programmed identification number. Refer to the receiver's installation instructions for details on registering a transmitter.

8. When prompted by the receiver to reset transmitter, press the reset button.
9. Replace the cover.

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**Caution:** The transmitter should be tested after registration to ensure operation. To test the transmitter, activate each of the conditions and ensure an appropriate response.

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## 2.6 Operate the Transmitter

To activate single button transmitters, press the button for at least one second. To activate double button transmitters, press both buttons simultaneously. Alarm signals are transmitted multiple times and are indicated by the blinking transmission LED. When the buttons are released, the transmitter sends an alarm restoral signal. To test a transmitter, activate the alarm by pressing the button(s).

## 3 Specifications

**Typical battery life:** 3-5 years

**Battery type (BAT608):** Panasonic CR2, Sanyo CR2

**Operating environment:** 0 to 60°C (32 to 140°F), 90% relative humidity, noncondensing

**Power requirement:** 3 VDC, 60 mA

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**Note:** Specifications and data are subject to change without notice.

**EN1235DF/EN1235SF UL listings:** UL 365, UL 636, UL 1076, UL 1610.

**Compatible receiver:** EN4216MR, EN4232MR, EN7285

## 4 Television and Radio Interference

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## 5 FCC Part 15 and Industry Canada Compliance

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) 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 : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## 6 Warranty/Disclaimer

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**Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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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 thirty-six (36) 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.

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

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