

EchoStream® EN1235SF/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 Contact Information

For product and installation videos visit us at www.inovonics.com/videos or use the QR code below.



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

- E-mail: support@inovonics.com
- Phone: (800) 782-2709

1.2 Transmitter Components

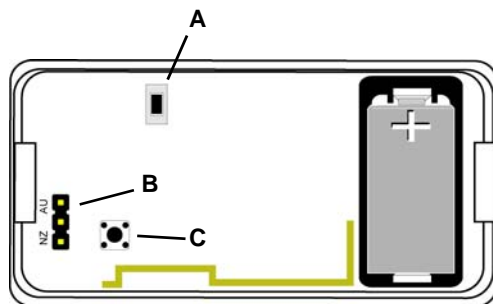


Figure 1 Transmitter components

- 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
- Two mounting screws
- 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.

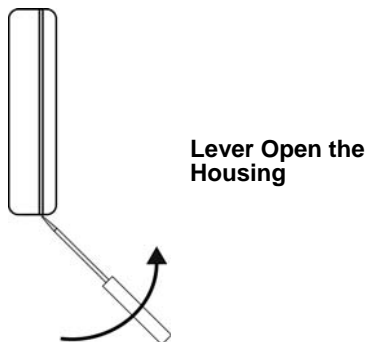


Figure 2 Open the Housing

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 section 2.4, "Mount the Transmitter". 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.

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.

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.

To mount the transmitter:

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

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.

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 every three minutes.

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

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

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.

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 US Patent Numbers

- 7,154,866
- 7,554,932
- 7,746,804
- Other patents pending

4 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

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

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

Compatible receivers for UL installations: EN4216MR, EN4232MR, EN7285

5 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.

6 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.

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