

EN2242 Three-Condition Duress Card Installation and Operation Manual

1 Overview

When deployed as part of an Inovonics advanced location network, the EN2242 three-condition duress card allows you to accurately locate employees in near real time, and provides the ability to send up to three alarm conditions.

1.1 Inovonics Contact Information



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

- E-mail: support@inovonics.com.
- Phone: 1.800.782.2709, option 2.

1.2 EN2242 Three-Condition Duress Card Buttons

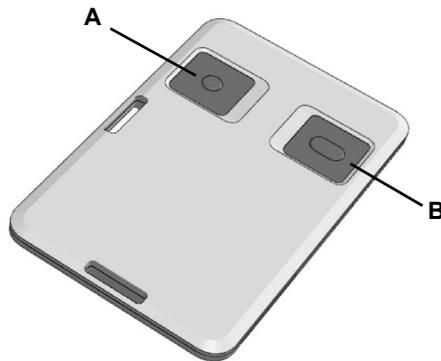


Figure 1 Duress card buttons
A Button 1 B Button 2

2 Installation and Startup

2.1 Installation Notes

- These products are designed to be maintained by professional technicians.
- Products are intended for indoor use.
- The battery is sized for an average of one button press per day or less. Usage above this frequency will result in a lower expected battery life.

2.2 Startup and Operation

To activate the duress card:

1. Exit sleep mode by pressing either button.
 - The LED will blink green for 20 seconds awaiting confirmation.
2. To confirm exit, press button 1 three times within two seconds during the 20 second confirmation window.
 - If sleep mode exit is confirmed, the LED will flash green; if sleep mode exit is not confirmed, the LED will flash red and the duress card will go back to sleep. If sleep mode exit is not confirmed, repeat the procedure.

- Once the duress card badge is activated, it will remain active until the battery is depleted.
- Unless real time locating system (RTLS) is disabled, the duress card will transmit its location every 25 seconds.

3. Wear using lanyard with the button side out.

2.3 Register the Duress Card

The duress card must be registered with the system in order to be monitored and supervised. When supervised, the duress card will send a check-in message every three minutes to the RF gateway.

Each duress card has a unique factory-programmed identification number. Refer to the control panel's installation instructions for details on registering the duress card.

When prompted to reset the duress card:

1. Enter menu mode by holding button 1 and pressing button 2 three times.
 - The LED will flash green rapidly followed by a slower green LED flash.
2. While in menu mode, press button 2 three times.
 - The LED will flash green rapidly followed by a device reset.

3 Operation

Caution: The EchoStream system should be tested regularly to ensure operation. To test the system, activate each of the duress card conditions and ensure an appropriate response.

3.1 Activating Duress Card Conditions

The duress card can send three different conditions.

- To send the first condition, press and hold button 1 for one second.
- To send the second condition, press and hold button 2 for one second.
- To send the third condition, press and hold both button 1 and button 2 together for one second.

Condition signals are transmitted multiple times and are indicated by the blinking transmission LED. Inovonics recommends you test the duress card at least once per week.

3.2 Duress Card Button Commands

Action	Combination	Indicator
Confirm exit sleep mode.	After pressing either button to wake up the duress card, press button 1 three times during the 20-second confirmation window.	If sleep mode exit is confirmed, the LED will flash green; if sleep mode exit is not confirmed, the LED will flash red and the duress card will go back to sleep.
Enter menu mode.	Holding button 1, press button 2 three times.	Rapid green LED flash followed by slower green LED flash.
Reset device.	While in menu mode, press button 2 three times.	Rapid green LED flash followed by device reset.
Toggle RTLS mode. (RTLS is enabled by default).	While in menu mode, press and hold button 2 for three seconds.	Rapid green LED flash followed by menu exit.
Enter sleep mode.	While in menu mode, press button 1 three times.	Rapid green LED flash followed by duress card entering sleep mode.



4 Specifications

Dimensions: 3.37" x 2.125" x .04" (85.6 x 54 x 6mm).

Weight: .88 oz (25g).

Operating temperature: 32 to 140°F (0 to 60°C).

Operating environment: Waterproof to IP65 standard.

Estimated battery life with one button press per day: 3-5 years with RTLS on; 4-6 years with RTLS off.

Estimated shelf battery life: 5 years.

Note: A low battery message will be sent with an estimated three months of life remaining, depending on usage.

Storage requirement: Ambient conditions of 69 to 73°F (20.5 to 22.8°C).

Frequency: 902-928 MHz; 2.402 GHz to 2.480 GHz.

Check-in time, EchoStream: 3 minutes; 2.4 GHz: 25 seconds with RTLS on; 60 minutes with RTLS off.

Note: Inovonics supports recycling and reuse whenever possible. Please recycle these parts using a certified electronics recycler.

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

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 RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

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

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.

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

8 Medical Device Interference

Under FDA and FCC guidelines, the responsibility for verifying continuous and safe operation of medical devices such as pacemakers and implanted defibrillators in the presence of electromagnetic interference (EMI) rests with the manufacturer of the medical device. As such, Inovonics does not have the authority or specific device knowledge to conduct or interpret formal tests on their behalf.

Inovonics transmitter devices comply with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standards.

If you have any concerns about the use of Inovonics transmitter devices in the presence of medical devices used by a particular resident or patient, we recommend that you consult with their physician. Another potential source for answers is the medical device manufacturer, who can provide more information as to their compliance with federal guidelines and how they have addressed EMI risk.

9 Radiation Exposure Limits

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme avec ISED RSS-102 des limites d'exposition aux rayonnements définies pour un environnement non contrôlé. Les utilisateurs finaux doivent suivre le fonctionnement spécifique instructions pour satisfaire la conformité à l'exposition RF. Cet émetteur doit ne pas être colocalisé ou fonctionner conjointement avec une autre antenne ou émetteur.