

## EN1210 Family Single Input Universal Installation Instructions

### 1 Overview

The Inovonics EN1210 single input universal is designed for use with almost any standard contact or sensor. Continuous check-ins ensure reliability.

The single input universal is available in North America, Australia, and New Zealand; the radio frequency band has been configured for the appropriate geographic area at the factory.

The single input universal is available in the following configurations:

Part #	Check-In
EN1210	3 minutes
EN1210-60	60 minutes
EN1210-240	240 minutes

**Note:** For UL 2560 installations, refer to the *EN6080 Area Control Gateway Installation Instructions*.

### 1.1 Maximum Number of Repeaters for a UL 2560 Installation

To achieve the 99.99% alarm message reliability required for UL 2560 compliance, system installations must operate within the following limits for end device and repeater counts.

End Devices	Maximum Repeaters
150	397
250	386
350	375
500	360
1000	313
2000	238
3000	184

### 1.2 Inovonics Contact Information

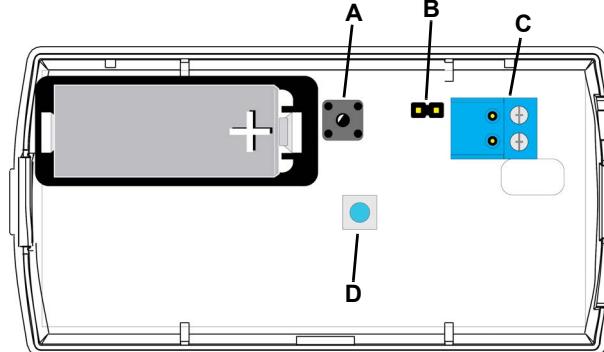
For product and installation videos visit us at [www.inovonics.com/videos](http://www.inovonics.com/videos) or use the QR code below.



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

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

### 1.3 Single Input Universal Internal Components



**Figure 1** Single input universal components

A Housing tamper button  
 B NO/NC selection pins  
 C Terminal block  
 D Reset button

## 2 Installation and Startup

### 2.1 Installation Notes

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

### 2.2 Install/Replace the Battery

- Pry the top lip of the mounting bracket up, and lift the bracket off of the transmitter.
- Use your thumb to depress the housing release tab on the bottom of the transmitter; separate the housing.
- Install the new battery.
- Press the reset button to initialize the transmitter.

**Note:** When disposing of this device or depleted batteries, please do so in accordance with federal, state and local regulations.

### 2.3 Select Input Type

The N/O-N/C selection pins allow the choice of a normally open or normally closed state for the contact circuit wired to the input terminal. The transmitter is shipped set for normally closed, with no selection jumper on the N/O - N/C selection pins. If you will be using the product in a normally closed state, skip to section 2.4, "Register the Transmitter"; if you will be using the product in a normally open state, you will need to configure the transmitter:

- Place a selection jumper on the N/O - N/C selection pins to select normally open.
- Press the reset button to complete configuration.

### 2.4 Register the Transmitter

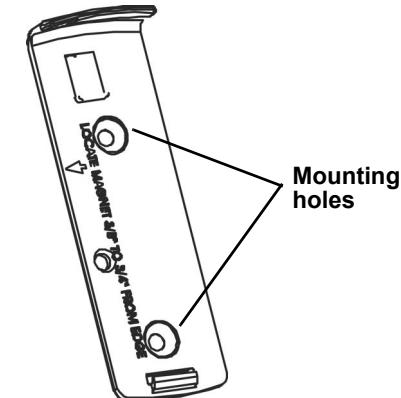
Transmitters must be registered with the system in order to be monitored and supervised. EN1210 transmitters send a check-in message every three minutes; EN1210-60 transmitters send a check-in message every 60 minutes; EN1210-240 transmitters send a check-in message every 240 minutes. Each transmitter has a unique factory-programmed identification number. Refer to the receiver installation instructions for details on registering a transmitter.

**Note:** For UL 2560 installations, transmitters must have a minimum check-in time of 60 minutes.

- When prompted by the receiver to reset transmitter, press the reset button.
- Replace the cover.
- Test the transmitter by activating each of the conditions and ensuring an appropriate response.

### 2.5 Mount the Transmitter

- Mount the bracket on the wall with the screws provided.



**Figure 2** Mount the bracket

- Clip the transmitter onto the bracket. Hook the bottom catch first, then press the top into place.
- As desired, use the third mounting screw to secure the housing through the screw hole located beneath the battery.

**Note:** Accessing this screw on an active transmitter requires opening the housing and removing the battery, causing a tamper condition.

- Replace the housing cover.



### 3 Specifications

External contacts: NO or NC.  
Distance, external contact to transmitter: 3 meters (10 feet) maximum.  
Typical battery life: 3-5 years.  
Battery type (BAT604): Panasonic CR123A or equivalent.  
Power requirement: 3VDC, 60 mA.  
Operating environment: -4° to 140°F (-20° to 60°C), non-condensing.  
Compatible receiver for UL 2560 installations with EN1210-60: EN6080.  
Compatible repeater for UL 2560 installations with EN1210-60: EN5040-20T.

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

**Note:** The EN1210-60 is a supplemental device that can be installed in a UL 2560 certified system.

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

### 6.2 ISED

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must be installed to provide a separation distance of at least 20 cm from all persons and 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. Cet émetteur doit être installé à au moins 20 cm de toute personne et ne doit pas être colocalisé ou fonctionner en association avec une autre antenne ou émetteur.

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**Note:** 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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**Note:** Inovonics commercializes products utilizing open source third party software. For additional information, please visit: <https://www.inovonics.com/support/embedded-third-party-licenses/>.

### 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 Innovation, Science and Economic Development Canada (ISED) Compliance

This device complies with part 15 of the FCC Rules, and ISED 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 that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique 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 Radiation Exposure Limits

#### 6.1 FCC

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm during normal operation and must not be co-located or operating in conjunction with any other antenna or transmitter.