



## EN1215EOL Universal with Wall Tamper Installation Instructions

### 1 Overview

The Inovonics EN1215EOL universal with wall tamper can be used with any standard contact or sensor. A 2.2K ohm end of line resistor is included with the EN1215EOL, and is required for operation.

The EN1215EOL includes a wall tamper switch. The tamper condition must be defined within the control panel as a trouble condition when the system is disarmed, and as an alarm condition when the system is armed.

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

**Note:** For UL installations, refer to the *EN4216MR Installation and Operation Manual*, the *EN4232MR Installation and Operation Manual*, or the *EN7290 EchoStream Receiver/Interface for Honeywell VISTA Panels Installation Instructions*.

**Note:** For UL installations, the switch contact must be in the same room as the EN1215EOL.

**Note:** The cable length from the switch contact must not to exceed 10 feet.

**Note:** For UL installations, the EN1215EOL must be installed in accordance with UL 681.

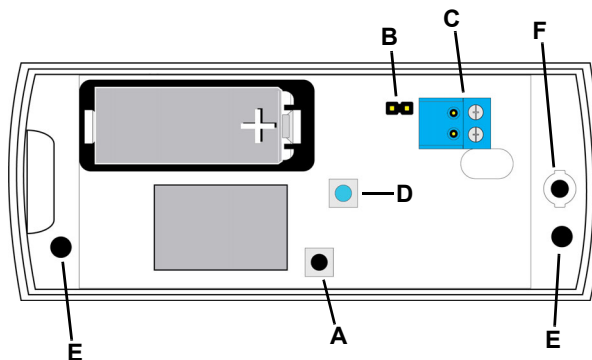
### 1.1 Inovonics Contact Information

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.

### 1.2 Universal with Wall Tamper Internal Components



**Figure 1** Universal with wall tamper internal components

- A Combined housing/wall tamper switch  
 B N/O - N/C selection pins  
 C Input terminal  
 D Reset button  
 E Wall-mount screw holes  
 F Housing closure screw hole

### 1.3 What's In The Carton

- Two wall mount screws.
- Two wall mount anchors.
- Two selection jumpers.
- One 3.0V lithium battery.
- One housing closure screw.
- One 2.2K ohm end of line resistor.

## 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 the Battery

1. Use your thumb to press the housing release tab on the bottom of the transmitter; separate the housing.
2. Install the battery.
3. Press the reset button to initialize the transmitter.
4. Test the transmitter and ensure appropriate response.

### 2.3 Select Input Type and Wire Resistor

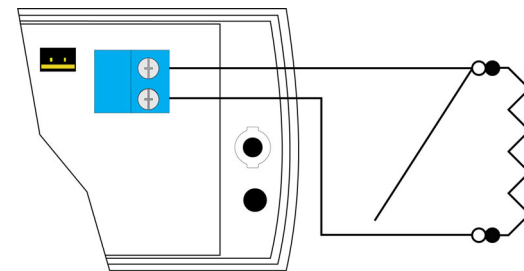
The N/O-N/C selection pins allow the choice of a normally open or normally closed state for the contact circuit wired to the input terminal.

The transmitter is shipped set for normally closed, with no selection jumper on the N/O selections pins.

#### Set for Normally Open Operation

1. Place a selection jumper on the selection pins to select normally open.
2. Use 22 AWG wire to wire the 2.2K ohm resistor in parallel with the N/O contact per Figure 2. The distance from the external contact to the EN1215EOL must not exceed 10 feet (3 meters).

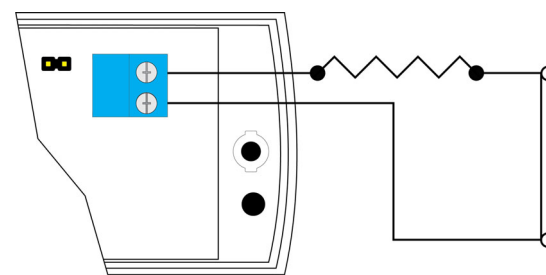
3. Press the reset button to complete configuration.



**Figure 2** Wired for N/O operation

#### Normally Closed Operation

1. Remove the selection jumper from the selection pins.
2. Use 22 AWG wire to wire the 2.2K ohm resistor in series with the N/C contact per Figure 3. The distance from the external contact to the EN1215EOL must not exceed 10 feet (3 meters).
3. Press the reset button.



**Figure 3** Wired for N/C operation

### 2.4 Register the EN1215EOL

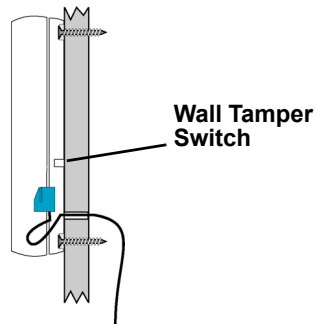
Transmitters must be registered with the system in order to be monitored and supervised. When supervised, the transmitter will send a check-in message to the receiver every three minutes. Each transmitter has a unique factory-programmed identification number.

Refer to the receiver installation instructions for details on registering a transmitter.

1. When prompted by the receiver to reset transmitter, press the reset button.
2. Replace the cover.
3. Test the transmitter and ensure appropriate response.

## 2.5 Mount the EN1215EOL

1. Route the external wiring through the wall, as shown in Figure 4.
2. Mount the transmitter to the wall using the wall-mount screw holes, ensuring the housing is flush against the wall and the wall tamper switch is firmly depressed.



**Figure 4** Mount the transmitter to the wall

3. Close the housing.
4. Secure the housing through the enclosed housing screw hole. Accessing this screw on an active transmitter requires opening the housing and removing the battery, causing a tamper condition.

## 3 Specifications

**Note:** The 2.2K ohm resistor is required to operate the EN1215EOL.

External contacts: N/O or N/C.

Distance, external contact to EN1215EOL: 10 feet (3 meters) maximum.

Power requirement: 3 VDC, 60 mA.

Typical battery life: 3-5 years.

Battery type (BAT604): Panasonic CR123A.

Operating environment: 0 to 60°C (32 to 140°F), 90% relative humidity, noncondensing; 0 to 49°C (32 to 120°F) for UL installations.

UL listings: UL 365, UL 1023, ULC/ORD-C1023-74, UL 1076, UL 1610.

Compatible UL receiver: EN4216MR, EN4232MR, EN7285.

**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.

## 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.

### 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.