



# EE1216 EchoStream® Dual Input Universal Transmitter with Wall Tamper Installation Instructions

## 1 Overview

The EE1216 dual input universal transmitter with wall tamper is designed for use with almost any standard contact or sensor, and includes two inputs for maximum flexibility. It is fully supervised and includes a wall tamper switch that notifies the system when the transmitter is removed from its mounted surface.

### 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 technical services:

- E-mail: [support@inovonics.com](mailto:support@inovonics.com).
- Phone: (800) 782-2709; (303) 939-9336.

## 1.2 EE1216 Internal Components

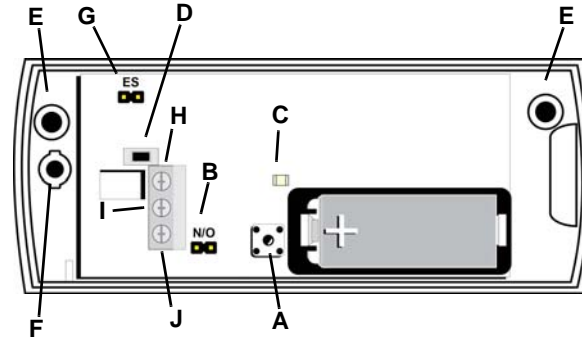


Figure 1 EE1216 components

- |  |                        |
|--|------------------------|
| A Housing tamper button                          | B NO/NC selection pins |
| C Transmit LED                                   | D Reset button         |
| E Wall-mount screw holes                         | F Housing screw hole   |
| G EchoStream select compatibility selection pins | H Input two            |
| I Ground   | J Input one            |

## 1.3 What's In the Carton

- One 3.0V lithium battery, Inovonics part number BAT604.
- Two wall mount screws.
- Two wall mount anchors.
- Two selection jumpers.
- One housing closure screw.

## 2 Installation and Startup

### 2.1 Installation Notes

- These products are designed to be maintained by professional security technicians.
- Products are tested for indoor use.
- All products should be manually tested weekly.

### 2.2 Install the Battery

1. Use your thumb to depress the housing release tab on the bottom of the transmitter; separate the housing.
2. Install the battery.

### 2.3 Wiring the Contacts

The transmitter has a three-terminal contact block that can connect inputs from one or two external contact loops. The middle terminal is a ground, which is shared by both contact loops. Input one can be configured for either a normally open or a normally closed contact loop; input two is always normally closed.

3. Connect wiring for the inputs you will be using.
4. If you are not using input two, connect wiring between the input terminal and the ground terminal to set it for normally closed.

### 2.4 Select Input Type

The NO/NC selection pins allow the choice of a normally open or normally closed state for the contact circuit wired to the input one terminal. The terminal is shipped set for normally closed, with no selection jumper on the NO pins. If you need to set the terminal for normally open, you will need to configure the input type; otherwise, skip to section 2.5, "Select the EchoStream Select Compatibility".

To configure the input type:

5. Place a selection jumper on the NO/NC selection pins to select normally open.
6. Press the reset button.

### 2.5 Select the EchoStream Select Compatibility

To meet ETSI requirements, Inovonics has developed a new line of EE 868MHz-only products. These new 868MHz-only products are compatible with older systems that include EchoStream select products. If you are using any ES products in your current system, you will need to enable EchoStream select compatibility on this new 868MHz-only product; if you are not using any EchoStream select products, skip to section 2.6, "Register the EE1216".

To enable/disable EchoStream select compatibility:

7. Place a selection jumper on the enable EchoStream select compatibility selection pins.
8. Press the reset button.

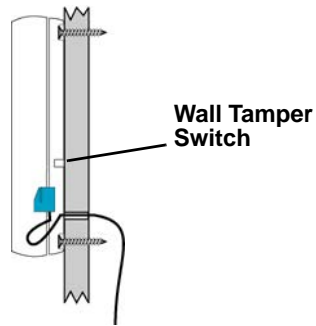
### 2.6 Register the EE1216

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. Transmitters using the 868MHz frequency range for Europe will send a check-in message every 12 minutes; all other transmitters will send a check-in message every three minutes. Each transmitter has a unique factory-programmed identification number. Refer to the receiver installation instructions for details on registering a transmitter.

9. When prompted by the receiver to reset transmitter, press the reset button.
10. Test the transmitter and ensure appropriate response.

## 2.7 Mount the EE1216

11. Route the external wiring through the wall, as shown in Figure 2.



**Figure 2** Mount the Transmitter to the Wall

12. 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.
13. Close the housing.
14. Secure the housing through the enclosed housing screw hole.

## 3 Specifications

External contacts: N/O or N/C.

Distance, external contact to transmitter: 3m (10 ft) maximum.

Power requirements: 3VDC, 60 mA.

Quiescent current: <10 uA.

Low battery detection: 2.4VDC.

Typical battery life: 3-5 years.

Battery type (BAT604): Panasonic CR123A or equivalent.

Tamper: Type B, fixed/mounted.

Operating environment: -10 to 60°C (14 to 140°F), up to 90% relative humidity noncondensing.

Dimensions: 10.5 x 4.5 x 2.3 cm (4.1 x 1.8 x 0.9")

Weight: 86 g (3.0 ounces).

RF frequency range: 868-869 MHz.

Compliance: Security Grade 2; Environmental class II.

Certification: Telefication B.V.

Output power: 25mW.

Firmware revision: 90770, v3.2.

Countries in which Inovonics European products can be distributed: Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

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

**Caution:** Changes or modifications to this unit not expressly approved by Inovonics may void the installer's authority to operate the equipment as well as the product warranty.

## 4 Simplified Declaration of Conformity

Hereby, Inovonics declares that the radio equipment type EE1216 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address: [www.inovonics.com](http://www.inovonics.com)

## 5 US Patent Numbers

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