EE1216 EchoStream® Dual Input Universal Transmitter with Wall Tamper
Installation Instructions - 04933C

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.
The EE1216 is compliant with:
- EN50131-1
- Security Grade 2
- Environmental Class II

1.1 Inovonics Contact Information
If you have any problems with this procedure, contact Inovonics technical services:
- E-mail: support@inovonics.com
- Phone: (800) 782-2709
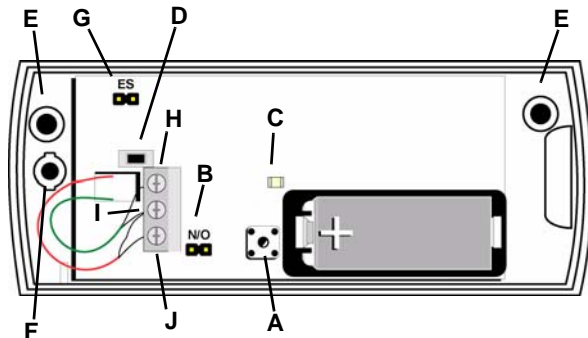
1.2 EE1216 Components

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 compatability selection pins	**H** Input one
I Ground	**J** Input two

2 Installation and Startup

2.1 Install/Replace the Battery
1. If replacing the battery, remove the housing screw.
2. Insert a small screwdriver to depress the housing release tab on the bottom of the transmitter; twist the screwdriver to open the housing.
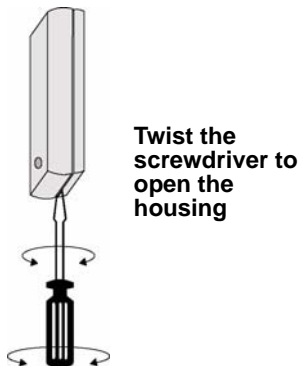

Twist the screwdriver to open the housing

Figure 2 Open the EE1216 Housing

3. If replacing a battery, remove the old battery.
4. Install the new battery.
5. Press the **Reset** button to initialize the transmitter.
6. Test the transmitter and ensure appropriate response.

2.2 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.

2.3 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.

1. Place a selection jumper on the NO/NC selection pins to select normally open; leave the jumper off the pins to select normally closed.
2. Press the **Reset** button.

2.4 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.
To enable/disable EchoStream select compatibility:

1. To enable compatibility with ES products, place a selection jumper on the enable EchoStream select compatibility selection pins.

2. If no ES products are used in your system, remove the selection jumper from the EchoStream select compatibility selection pins.
3. Press the **Reset** button.

2.5 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.

1. When prompted by the receiver to reset transmitter, press the **Reset** button.
2. Test the transmitter and ensure appropriate response.

2.6 Mount the EE1216

1. Route the external wiring through the wall, as shown in Figure 3.
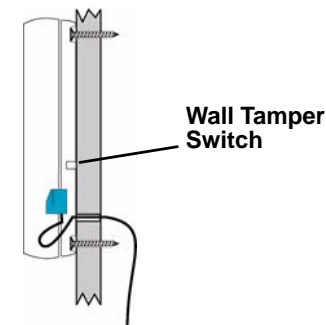

Wall Tamper Switch

Figure 3 Mount the Transmitter to the Wall

2. Mount the transmitter to the wall using the the wall-mount screw holes, ensuring the housing is flush against the wall and the wall tamper switch is firmly depressed.
3. Close the housing.
4. 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: EN50131-1; Security Grade 2; Environmental class II
Certification: Telefication B.V.

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

4 Warranty and Disclaimer

Inovonics Wireless Corporation ("Inovonics") warrants its products ("Product" or "Products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of thirty-six (36) months from the date of manufacture. Within the warranty period, Inovonics will repair or replace, at its option, all or any part of the warranted Product. Inovonics will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User ("User", "Installer" or "Consumer") must work directly through their authorized distributor who will be given a Return Material Authorization ("RMA") Number by Inovonics. Details of shipment will be arranged directly through the authorized distributor.

This warranty is void in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, accident or tampering, and repair by anyone other than Inovonics.

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