



EN1216 EchoStream® Universal Dual Input Transmitter with Wall Tamper Installation Instructions - 05181E

1 Overview

The Inovonics EN1216 universal dual input transmitter with included wall tamper switch can be used with any NO/NC contact or sensor. It includes two inputs for maximum flexibility.

Note: The EN1216 requires use of a serial receiver or network coordinator, as well as an application designed to support advanced functionality.

1.1 Inovonics Wireless 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 EN1216 Components

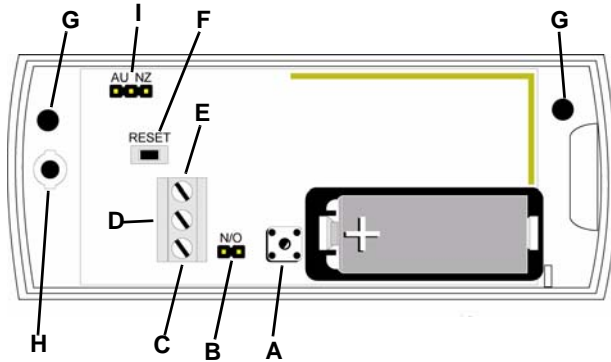


Figure 1 EN1216 components

- | | |
|---------------------------------|------------------------|
| A Housing tamper button | B NO/NC selection pins |
| C Input 1 terminal | D Ground |
| E Input 2 terminal | F Reset button |
| G Wall-mount screw holes | H Housing screw hole |
| I Frequency band selection pins | |

2 Installation and Startup

2.1 Install/Replace the Battery

1. Insert a small screwdriver to depress the housing release tab on the bottom of the transmitter; pry the housing apart.

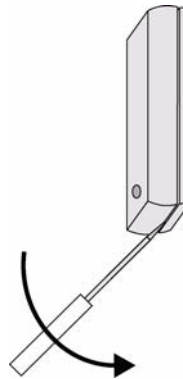


Figure 2 Open the EN1216 Housing

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

2.2 Contact Wiring

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 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 one terminal.

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

1. Place a selection jumper on the selection pins to select normally open; remove the selection jumper from the selection pins to select normally closed.
2. Press the **Reset** button to complete configuration.

3.1 Select the Frequency Band

EchoStream products are able to use a range of radio frequencies, and must be configured for your geographic area. To configure the transmitter:

1. Place a selection jumper on the appropriate frequency band selection pins.
 - Place the jumper on the left two pins, marked NZ, to set the frequency range to 921-928 MHz for New Zealand.
 - Place the jumper on the right two pins, marked AU, to set the frequency range to 915-928 MHz for Australia.
 - Leave the jumper off the pins to set the frequency range to 902-928 MHz for North America.
2. Press the **Reset** button to complete configuration.

Caution: When pressing the **Reset** button, make sure you don't also touch the frequency band selection pins. Touching the frequency band selection pins while pressing the **Reset** button can inadvertently set the EN1216 to the wrong frequency band.

3.2 Register the EN1216

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.

The EN1216 includes a back 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. 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 (Figure 1).
2. Replace the cover.
3. Test the transmitter and ensure appropriate response.

3.3 Mount the EN1216

1. Route the external wiring through the wall, as shown in Figure 3.
2. Mount the transmitter to the wall using the the wall-mount screw holes (Figure 1), ensuring the housing is flush against the wall and the wall tamper switch is firmly depressed.

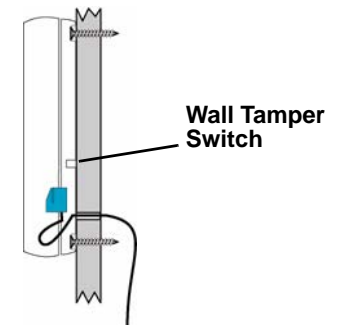


Figure 3 Mount the Transmitter to the Wall

3. Close the housing.
4. Secure the housing through the enclosed housing screw hole (Figure 1). Accessing this screw on an active transmitter requires opening the housing, causing a tamper condition.

4 Specifications

Dimensions: 3.5x1.7x0.9" (89x43x23 mm)

Weight: 3 oz (85g)

External contacts: NO or NC

Distance, external contact to EN1216: 10feet (3 meters) maximum

Typical battery life: 3-5 years

Battery type (BAT604): Panasonic CR123A or equivalent

Operating environment: -20 to 60°C (-4 to 140°F), noncondensing

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 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.

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.

7 Warranty and Disclaimer

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

Inovonics Wireless Corporation ("Inovonics") warrants its EchoStream 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.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied. There is no warranty by Inovonics that Inovonics product will be merchantable or fit for any particular purpose, nor is there any other warranty, expressed or implied, except as such is expressly set forth herein. In no event shall Inovonics be liable for an incidental, consequential, indirect, special, or exemplary damages, including but not limited to loss of profit, revenue or contract, loss of use, cost of down time, or interruption of business, nor any claim made by distributor's customers or any other person or entity.

This warranty will not be modified or extended. Inovonics does not authorize any person to act on its behalf to modify or extend this warranty. This warranty will apply only to Inovonics Products. Inovonics will not be liable for any direct, incidental or consequential damage or loss whatsoever, caused by the malfunction of Product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Product.