

EN1550EP Encoder Pulse Transmitter

Installation and Operation Manual

1 Overview

Connected to a Neptune E-CODER® register for submetering, the EN1550EP encoder pulse meter transmitter will transmit data to an RF receiver that is connected to an Inovonics receiver and data logger.

1.1 Inovonics Wireless Contact Information

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

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

1.2 EN1550EP Components

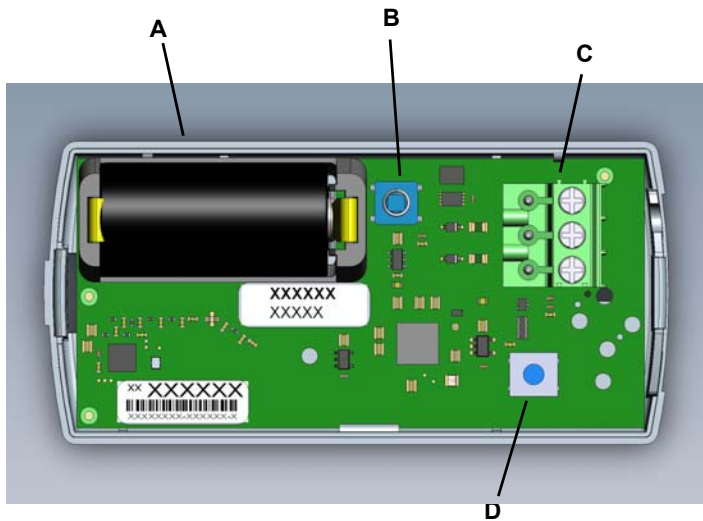


Figure 1 EN1550EP Components

- A** Battery **B** Tamper switch **C** Removable header terminal
- D** Reset button

1.3 What's In The Carton

- Three drywall anchors.
- Three mounting screws.
- One piece of mounting tape.

2 Installation and Startup

2.1 Installation Notes

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

2.2 Connect Transmitter to Neptune E-CODER Register

Connect the transmitter to the register as follows:

1. Open the housing by pressing down on the base tab near the wiring through-hole while lifting away the cover.
2. Fully insert stripped wires into the removable header terminal.
3. Use a small Phillips screwdriver to tighten the screws that secure wires to the removable header terminal.
4. Attach removable header terminal (if removed) to the transmitter board as shown.

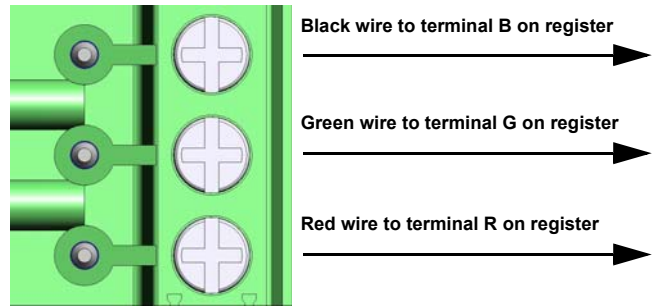


Figure 2 Connect the transmitter to the Neptune E-CODER register

2.3 Mount the Transmitter

5. Use the double-sided tape to mount the transmitter to a clean wall.
6. As desired, secure the transmitter to the wall with the mounting bracket, screws, anchors and/or mounting tape.

Note: To secure the EN1550EP, you will need to remove the battery to access the mounting screw hole. Make sure to press the reset button after replacing the battery to initialize the transmitter.

Note: Ensure cabling enters the housing through the access wiring through-hole, and replace the housing (Figure 2).

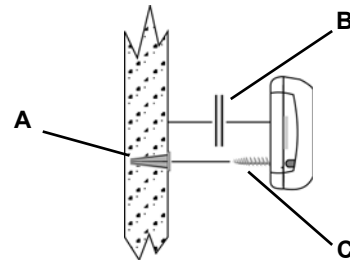


Figure 3 Mount the Transmitter

- A** Anchor installed in wall **B** Double-sided tape
- C** Mounting screw

2.4 Register the Transmitter

7. Confirm that transmitter is connected to the meter.
8. Confirm that the battery is installed.
9. Press reset to take the transmitter out of shipping/sleep model.
10. See the appropriate user documentation for specific registration instructions.

3 Replace the Battery

When the low battery message is received, you will need to replace the EN1550EP battery.

1. Open the housing by pressing down on the base tab near the wiring through-hole while lifting away the cover.
2. Remove the old battery, taking note of the battery orientation.
3. Insert the new battery, making sure it is aligned correctly.
4. Press the reset button.

Note: EN1550EP transmitters retain programming data in non-volatile memory. They do not require reprogramming after loss of power. Install new battery and press the transmitter reset button to initialize the transmitter and restore programming. Its count will go to zero and the initial Meter Read count will be updated in the data logger.

4 Specifications

Dimensions: 3.57" x 1.70" x 0.85".

Operating environment: -20°- 60°C (-4°- 140°F), 90% relative humidity, non-condensing.

Typical battery life: 5 years at 70 to 90°F (20 to 30°C). Higher temperatures reduce battery life.

Battery type: 3.0V lithium (BAT604). The battery is always supervised.

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.

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

7 Radiation Exposure Limits

7.1 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.

7.2 Industry Canada

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.