



EN1224 Multiple Condition Pendant/ EN1224-ON Multiple Condition On/Off Pendant

Installation Instructions

1 Overview

The EN1224 multiple-condition pendant can send up to ten conditions; the EN1224-ON multiple condition on/off pendant has the buttons configured for on/off applications.

1.1 Inovonics Contact Information

For product and installation videos visit us at 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.
- Phone: (800) 782-2709; (303) 939-9336.

1.2 EN1224/EN1224-ON Components

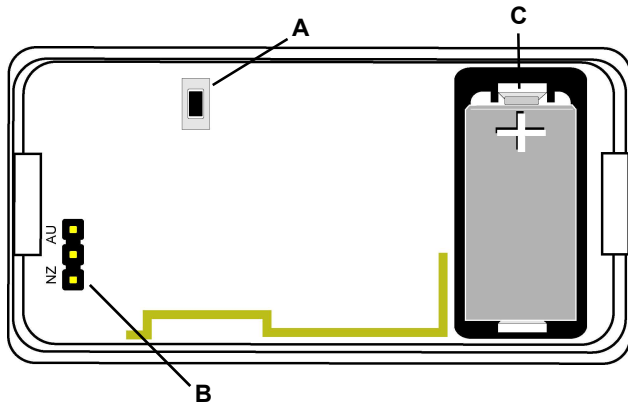


Figure 1 EN1224/EN1224-ON components

- A Reset button B Frequency band selection pins
C Battery

1.3 What's in the Carton

- One multiple condition pendant or multiple condition on/off pendant.
- One 3.0V lithium battery

2 Installation and Startup

2.1 Install/Replace the Battery

1. Pry the housing apart at either end and pull the two halves apart.
2. If replacing a battery, remove the old battery.
3. Install the new battery.
4. Press the reset button to initialize the pendant.

2.2 Select the Frequency Band

- EchoStream products are able to use a range of radio frequencies, and must be configured for your geographic area. This product ships with a default frequency range of 902-928 MHz for use in North America. If you are using the product in North America, skip to section 2.3, "Register the Pendant"; if you are using the product in Australia or New Zealand, you will need to configure the pendant.
5. Place a selection jumper on the appropriate frequency band selection pins.
 - Leave the jumper off the pins to set the frequency range to 902-928 MHz for North America.
 - Place the jumper on the bottom two pins, marked NZ, to set the frequency range to 921-928 MHz for New Zealand.
 - Place the jumper on the top two pins, marked AU, to set the frequency range to 915-928 MHz for Australia.
 6. 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 pendant to the wrong frequency band.

2.3 Register the Pendant

The pendant must be registered with the system in order to be monitored and supervised. The pendant will send a check-in message to the RF gateway every three minutes. Each pendant has a unique factory-programmed identification number. Refer to the control panel's installation instructions for details on registering a pendant.

1. When prompted to reset the pendant, press and release the reset button.
2. Replace the cover.

3 Operation

Caution: The EchoStream system should be tested regularly to ensure operation. To test the system, activate each of the pendant's conditions and ensure an appropriate response.

3.1 Activating Conditions

The pendant can send up to ten conditions. The conditions will depend on the application, as will the response. The application controller must be designed to recognize simultaneous messages. Condition signals are transmitted multiple times and are indicated by the blinking transmission LED. Inovonics recommends you test the pendant regularly.

Printing Instructions

1. Print Duplex
2. Align and orient back page to match front page.
3. Cut on dashed line
4. Fold cutsheet in half along the 8.5" axis.

4 Specifications

Typical battery life: 3-5 years.

Battery type: Panasonic CR2 or equivalent.

Operating environment: 0 to 60°C (32 to 140°F).

Operating humidity: 0 to 90%, non-condensing.

Operating frequencies: 902-928 MHz, frequency hopping spread spectrum.

Check-in time frequency: 3 minutes.

System requirements: The application controller (e.g. control panel) must be designed to accept the multiple conditions.

Regulatory listings: FCC, RoHS, RCM, ISED.

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 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.

Note: 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 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.