

## REPEATER



Third Coast Company repeater extends the communication range by amplifying and retransmitting signals, ensuring reliable data transmission over long distances or through obstacles.

### Product Features

- Bright LEDs indicate USB communication, wireless connection and working
- A repeater amplifies weak signals.
- It retransmits the signals to extend communication range.
- Ensures reliable data transmission over long distances.
- Helps overcome obstacles that may block signals.
- Enhances overall system coverage and connectivity.
- The repeater is equipped with a built-in 18650 battery.
- The battery ensures continued operation during power outages.
- Provides backup power to maintain system functionality.

### Product Specifications

Weight: 350 g

Size: 150x150x31 mm

Power Requirement: 10-24VDC, 12-24 ACV, 70 mA(12VDC)

Backup: 18650 Rechargeable Battery

Frequency: 902-928 MHz, LORA (Chirp Spread Spectrum (CSS))

Operating Temperature: -4°F to 122°F (-20°C to +50°C)

Operating Humidity: Up to 90% (non-condensing)

Market: North America, Australia, New Zealand

### Dimensions

## 1. Overview

A repeater in a system amplifies and retransmits signals to extend the communication range and ensure reliable data transmission. It is particularly useful in environments where obstacles or long distances might weaken the signal between devices. By boosting the signal strength, the repeater enhances coverage and ensures consistent communication throughout the system.

The gateway system requires weekly testing to verify its functionality. To perform the test, switch the system to test mode, trigger an end device, and confirm that it responds correctly.

## 2. Installation and Startup

### a. Installation Notes

- These devices are intended to be serviced by qualified technicians only.
- The products are designed exclusively for indoor applications.
- All devices must comply with these handling instructions.

## 3. Operate the Transmitter

- The device sends a heartbeat signal every 60 seconds. If no signal is received within 70 seconds, please check the device.
- The device filters the incoming data and sends only one piece of data to Gateway

### FCC statements:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: 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.

The device has been evaluated to meet general RF exposure requirement, The device can be used in portable exposure condition without restriction. Federal Communication Commission (FCC) Radiation Exposure Statement Power is so low that no RF exposure calculation is needed.