



**Bravo Zulu Sensor Solutions MSH-RPTR-CC User's Manual**

Rev 1.00

## - READ BEFORE OPERATING -

This product manual must be read by all operators of the MSH-RPTR-CC. The operation and maintenance of this product must be performed in accordance to the manufacturers guidelines. Failure to do so may cause damage to the MSH-RPTR-CC and may increase the risk of injury or death to the operator. This product is not intended for use in any other way than stated in the user's manual.

This apparatus is suitable for use in Class I, Division 2, group D, T4, or unclassified locations.



**WARNING: EXPLOSION HAZARD. DO NOT MOVE OR REPLACE COMPONENTS OR CONNECTORS WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.**



**WARNING: SUBSTITUTION OF THE COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION II**

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# 1 General Information

The BZ Sensor Solutions MSH-RPTR-CC device is designed to extend the signal and coverage area of the Mesh Network and provide an interface for the users to access the Mesh Network via a computer with a USB port.

## 1.1 Specifications

### 1.1.1 Dimensions

- Height: 2.25 in.
- Width: 8.0 in.
- Depth: 3.25 in.

### 1.1.2 Weight

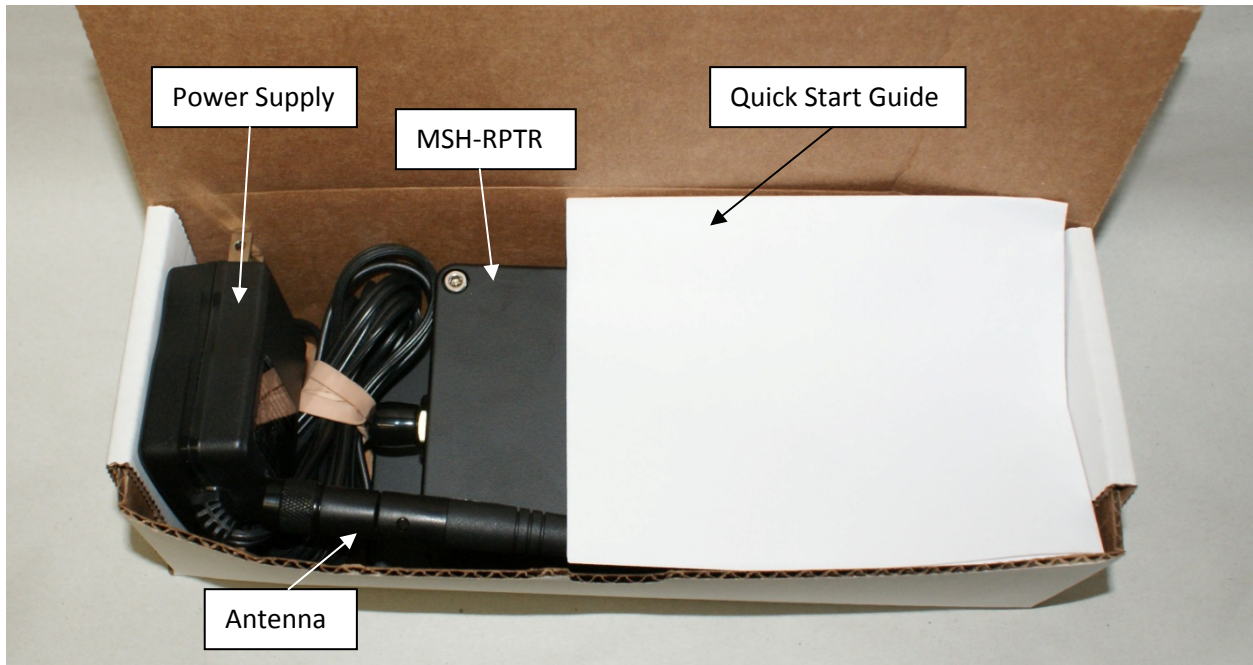
- 18 oz.

### 1.1.3 Operational Environment

- Altitude: 2000m
- Temperature: -25 – 40°C
- Humidity: 80% RH max.
- POLLUTION DEGREE 2

#### 1.1.4 Package Content:

- MSH-RPTR-CC
- USB Cable
- Antennae
- Quick Start Guide



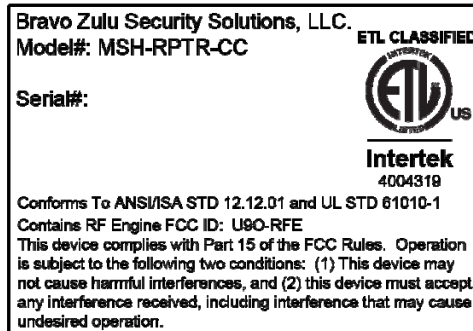
## 2 MSH-RPTR-CC Operation

The MSH-RPTR-CC is a compact device that extends and enhances the Mesh Network. It works in conjunction with all the BZ Sensor Solutions devices. It allows for the users to access, configure and monitor the network.



## 2.1 Physical Description

The MSH-RPTR-CC is designed to comply with standards for ANSI/ISA-12.12.01-2007 and ANSI/UL 61010-1-2008, 2nd.



## 2.2 Visual Indicators

The MSH-RPTR-CC contains one visual indicator. A green power LED. The green LED will illuminate when the USB cable is connected to the laptop computer.



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**WARNING: SUBSTITUTION OF THE COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2.**

## 2.3 BZSS Mesh Backbone

The BZSS mesh backbone uses the 2.4 Ghz RF signal and follows the ZigBee protocol for mesh networks. The BZSS Control Card allows the users to configure and monitor the mesh network.

# 3 Preventative Maintenance and Inspection Information

Maintenance of the MSH-RPTR-CC is very minimal. Visually inspect the device for any apparent damage, replace the components as necessary.

## 3.1 Mechanical Inspection

### 3.1.1 Guidelines

- Inspect the housing for any wear, exposure, or damage. Replace damaged parts.
- Inspect mounting system for damage. Replace damaged parts.

## 3.2 Electrical Inspection

### 3.2.1 Guidelines

- Check the USB cable and connector for damage. Replace the cable with the proper cable approved by BZSS.

## 4 Support

### 4.1 Contact Us

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## 5 Appendix

### 5.1 Compliancy

- Nonincendive Electrical Equipment for use in Class I Division II, Division II and Class II, Divisions I and II Hazardous (Classified) Locations. (ANSI/ISA-12.12.01-2007)
- Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements. (ANSI/UL 61010-1-2008, 2nd)