



105 Bonnie Drive  
Butler, PA 16002  
724-283-4681  
724-283-5939 (fax)  
www.bwieagle.com

## PRODUCT INFORMATION BULLETIN

### AIR-EAGLE® XLT

900MHz 8 Input Transmitter

**MODEL 44-1800-120VAC**

#### DESCRIPTION

The AIR-EAGLE XLT, MODEL 44-1800-120VAC is an R.F. transmitter capable of sending eight dry contact input commands to an Air-Eagle XLT Receiver. Any number of transmitters and receivers can be combined to create a long range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations of up to 2500 feet away (Up to 2 mile range with optional antennas). This unit is user-programmable for up seven network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

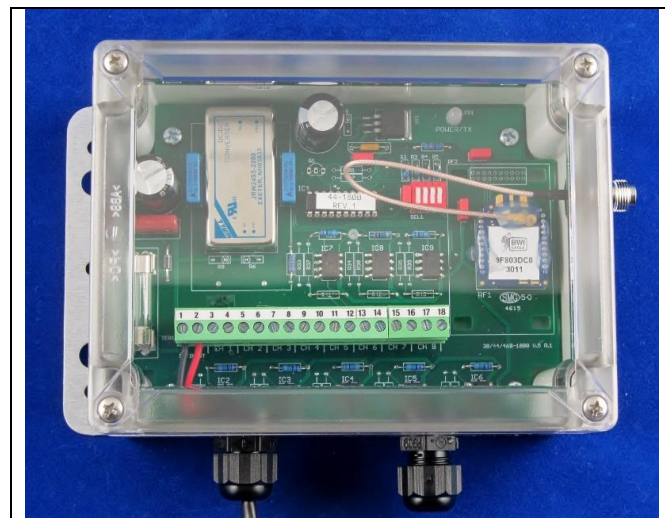
#### INSTALLATION

DISCONNECT Power from all equipment before installation.

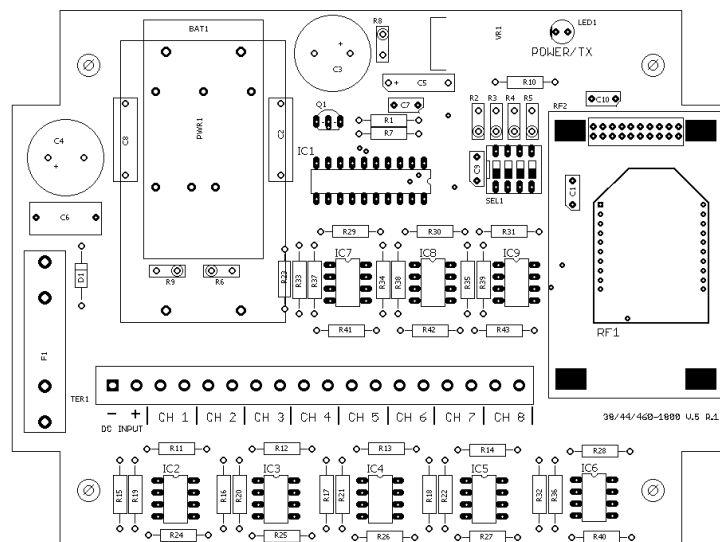
1. Mount the transmitter in a convenient location.
2. Install input wiring to TER1.
3. Attach supplied rubber duck antenna to TNC connector on the right side of the unit.
4. Plug supplied 120VAC wall plug into 110VAC outlet.

#### TERMINAL STRIP WIRING

|    |                                              |
|----|----------------------------------------------|
| 1  | (-) 12VDC from supplied AC wall plug adapter |
| 2  | (+) 12VDC from supplied AC wall plug adapter |
| 3  | Input 1 Common                               |
| 4  | Input 1                                      |
| 5  | Input 2 Common                               |
| 6  | Input 2                                      |
| 7  | Input 3 Common                               |
| 8  | Input 3                                      |
| 9  | Input 4 Common                               |
| 10 | Input 4                                      |
| 11 | Input 5 Common                               |
| 12 | Input 5                                      |
| 13 | Input 6 Common                               |
| 14 | Input 6                                      |
| 15 | Input 7 Common                               |
| 16 | Input 7                                      |
| 17 | Input 8 Common                               |
| 18 | Input 8                                      |



#### CONTROLS & INDICATORS



|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| POWER/TX LED    | Illuminated green when power is applied. Changes to red when transmitting data. |
| Inputs 1 thru 8 | Eight normally open dry contact inputs                                          |
| SEL1            | Dip switch bank for selecting operating frequency                               |
| RF1             | RF module that transmits data to the remote receiver                            |

# AIR-EAGLE® XLT

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## FREQUENCY SET-UP

This transmitter is shipped with the SEL1 switches in the open positions and is operating on Frequency 1. If you wish to change the default frequency setting, follow the instructions below:

- 1) Remove power from unit
- 2) Remove top cover.
- 3) Select network frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

| SEL1 (SW 1-3):<br>(NETWORK FREQUENCY) | Network Frequency       | SW1    | SW2    | SW3    |
|---------------------------------------|-------------------------|--------|--------|--------|
|                                       | 1                       | OPEN   | OPEN   | OPEN   |
|                                       | 2                       | CLOSED | OPEN   | OPEN   |
|                                       | 3                       | OPEN   | CLOSED | OPEN   |
|                                       | 4                       | CLOSED | CLOSED | OPEN   |
|                                       | 5                       | OPEN   | OPEN   | CLOSED |
|                                       | 6                       | CLOSED | OPEN   | CLOSED |
|                                       | 7                       | OPEN   | CLOSED | CLOSED |
| SEL1 (SW4)                            | Reserved for future use |        |        |        |

## SPECIFICATIONS

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| AC Input                | 100-240 VAC, 16 W, 50/60 Hz from supplied wall adapter |
| Fuse Protected          | 1 amp                                                  |
| RF Frequency            | 900MHz Spread Spectrum                                 |
| Input Channels          | 8 Dry Contact Inputs                                   |
| RF Output Power         | 250 mW                                                 |
| Transmitter Range       | Approximately 2500 Feet w/standard antenna             |
| Transmitter Frequencies | 7 Independent Network Frequencies                      |
| Antenna Connection      | TNC Bulkhead                                           |
| Enclosure               | Polycarbonate, IP66 (NEMA 4)                           |
| Operating Temperature   | -40° F to +185° F                                      |

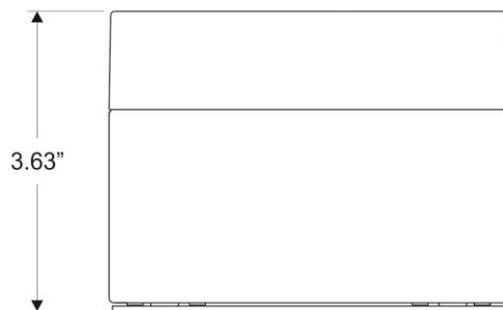
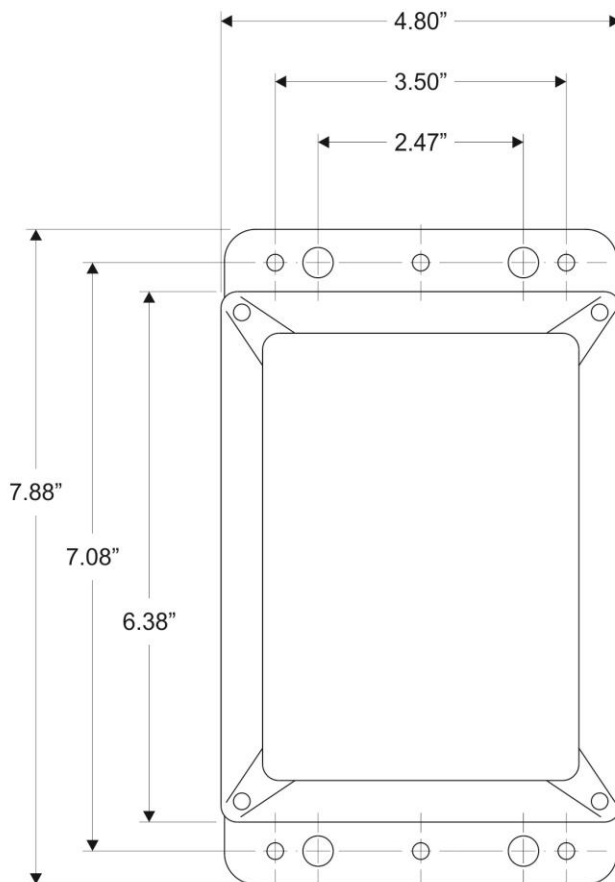
## REPLACEMENT PARTS & ACCESSORIES

|                                                                              |                                |
|------------------------------------------------------------------------------|--------------------------------|
| PC Board (Main)                                                              | 44-1802-DC                     |
| Standard Antenna (Included):                                                 |                                |
| 900MHz Portable Antenna (For distances up to 2500 feet*)                     | 49-1103                        |
| Optional Antennas and Accessories:                                           |                                |
| 900MHz Omni Directional Antenna (For distances up to 2 miles*)               | 49-3101                        |
| 900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 4 miles*) | 49-3102                        |
| Flex Coax Cable w/Connectors                                                 | 49-4000-XX<br>(XX = # of Feet) |
| * = Line of Sight                                                            |                                |

## APPROVALS

|                     |              |
|---------------------|--------------|
| United States (FCC) | MCQ-XBPS3B   |
| Canada (IC)         | 1846A-XBPS3B |

## DIMENSIONS



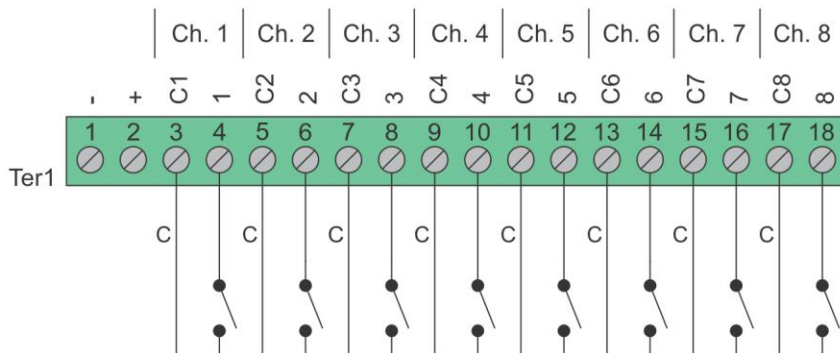


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## DRY CONTACT INPUT WIRING 8-Input Transmitter

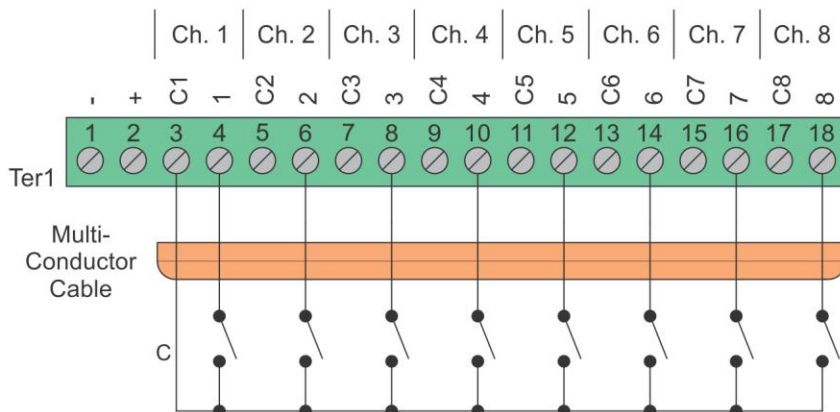
### Standard wiring of a dry contact input transmitter

Shorting together the contacts of the respective channel will cause it to transmit. This can be done with any type of manual or automatic switch.



### Standard Wiring for Common Ground Applications

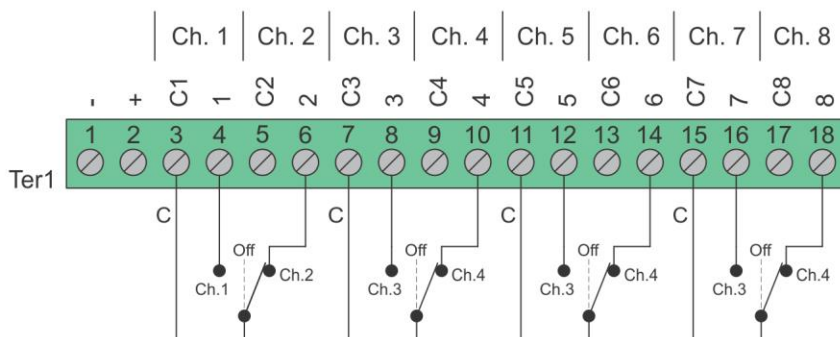
Because each channel shares a common (C) terminal, inputs can be wired as shown to allow for fewer conductors to be run to the transmitter.



### SPDT Switches

The common (C) terminal of the switch only needs to be connected to one of the channels ground terminal. In this configuration four channels would be transmitting all the time. A switch with a center "off" position would allow transmitting to stop.

In this example channels 2, 4, 6, and 8 are transmitting.



Wiring configurations shown here are examples. The wiring for your application may differ.  
Call BWI Eagle for assistance or consult an electrician.

# **AIR-EAGLE® XLT**

**900MHz 8 Input RF Transmitter**

**MODEL 44-1800-120VAC**

## **LIMITED WARRANTY STATEMENT**

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

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