

# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT PLUS

High Power 900 MHz RF Transmitter DUAL CONTACT INPUT

MODEL 461-1000-120I-DC

#### **DESCRIPTION**

The AIR-EAGLE XLT PLUS TX is an R.F. transmitter capable of sending three 120VAC input commands to an Air-Eagle XLT PLUS Receiver located up to a mile away (longer ranges can be achieved with external antennas). 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. Eight user-selectable frequencies allow multiple systems to operate simultaneously in the same area without interference.

#### **INSTALLATION**

- Mount the AIR-EAGLE XLT PLUS TRANSMITTER in a convenient location.
- 2. Install transmit wiring to input terminal strip.
- Attach rubber duck antenna or coax from external antenna to connector on side of enclosure.
- 4. Connect supplied power input cable to your external power source.

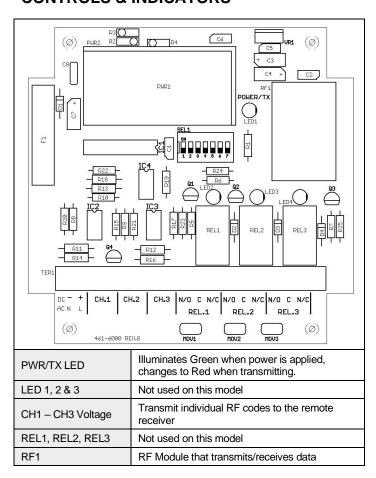
#### PC BOARD SET-UP INFORMATION

Make the following connections on the PC Board Terminal Strip (TER1)

TERMINAL STRIP WIRING (TER1)			
Terminal 1	(-) 9-36VDC		
Terminal 2	(+) 9-36VDC		
Terminal 3	Input 1 – 120VAC (Neutral)		
Terminal 4	Input 1 – 120VAC (Hot)		
Terminal 5	Input 2 – 120VAC (Neutral)		
Terminal 6	Input 2 – 120VAC (Hot)		
Terminal 7	Input 3 – 120VAC (Neutral)		
Terminal 8	Input 3 – 120VAC (Hot)		
Terminal 9	Not Used		
Terminal 10	Not Used		
Terminal 11	Not Used		
Terminal 12	Not Used		
Terminal 13	Not Used		
Terminal 14	Not Used		
Terminal 15	Not Used		
Terminal 16	Not Used		
Terminal 17	Not Used		
Terminal 18	Not Used		



#### **CONTROLS & INDICATORS**



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#### **GENERAL OPERATION**

Applying 120VAC on each input transmits to energize the corresponding relay in any receiver within transmit range. The signal transmits continuously as long as the voltage is present.

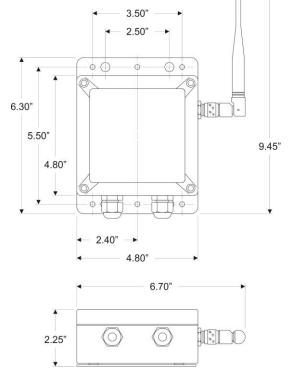
#### FREQUENCY SET-UP

The unit is shipped from the factory with all SEL1 switches in the open positions. By default, it is operating on Frequency #1. If you wish to change the frequency, follow the instructions on the table below.

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

	Network Address	SW1	SW2	SW3
SEL 1 (SW 1-3):	1 (default)	OPEN	OPEN	OPEN
(NETWORK FREQUENCY)	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
	8	CLOSED	CLOSED	CLOSED
SEL 1 (SW4-7)	Reserved for future use			

## DIMENSIONS



#### **SPECIFICATIONS**

Power Supply	9-36 VDC, 16 W 50/60 Hz			
Fuse Protected	2 amp			
Transmitter Data	Three 120VAC Inputs			
Transmit Frequency	900MHz Spread Spectrum			
RF Networks	Eight Independent Network Frequencies			
RF Output Power	1 Watt			
Transmit Range	Up to 1 Mile with Rubber Duck Antenna / Up to 10 Miles with External Antenna			
Note: Max range figures are estimates, based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including, but not limited to, indoor and outdoor structures such as walls, metal objects, trees, buildings, hills, and mountains				
Enclosure	Polycarbonate, IP66 (NEMA 4)			
Operating Temp	-40° F - +185° F			

#### **APPROVALS**

United States (FCC)	MCQ-XBPSX
Canada (IC)	1846A-XBPSX

#### **ACCESSORIES**

Standard Antenna (Included):					
900MHz TNC "Rubber Duck" Antenna	49-1103				
Mobile/Base Antennas – Used to help achieve max range in both non line of sight and line of sight applications Contact BWI Eagle for recommendations					
900MHz Thru-Hole Mount Mobile Antenna		49-2101			
900MHz Magnet Mount Mobile Antenna		49-2102			
900MHz Omni Directional Base Antenna		49-3101			
900MHz Yagi Directional Base Antenna		49-3102			
High Quality Coax Cables – Used to connect external high gain antennas to control unit					
Flex Coax Cable w/Connectors – Available in 5',15',25',30',40',60',80',100' Lengths (XX = #		00-XX # of Feet)			
Bulkhead Extensions – Used to provide an external antenna connection when mounting control unit inside another enclosure					
NC Male to TNC Bulkhead Cable Assembly 49-5004-X-ISC Available in 2', 4', 7' Lengths (X = # of Feet)					

#### 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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