

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

PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT 900 MHz RF Transmitter MODEL 441-1400-DCI-DC

DESCRIPTION

The AIR-EAGLE XLT TX is an R.F. transmitter capable of sending four independent 5-24VDC input commands to an Air-Eagle XLT Receiver located up to 2500 feet away (longer ranges can be achieved with external high gain antennas). Any number of transmitters and receivers can be combined to create a medium 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.

APPROVALS

United States (FCC)	MCQ-XB900HP
Canada (IC)	1846A-XB900HP

INSTALLATION

- 1. Mount the AIR-EAGLE XLT TRANSMITTER in a convenient location.
- Install wiring to contact input terminal strip (Note the terminal block header lifts off the base for easy wiring)
- Make desired repeater mode and frequency selections using instructions on page 2.
- 4. Attach supplied antenna to connector on right side of unit.
- 5. Connect supplied power input cable to your external power source.

TERMINAL STRIP WIRING

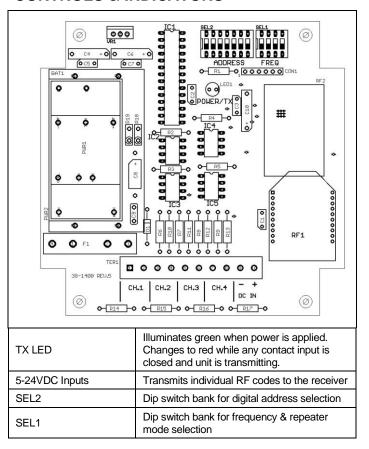
Wire as shown based on number of contact inputs									
1	2	3	4	5	6	7	8	9	10
Ch.1 Input 5-24VDC (-)	Ch.1 Input 5-24VDC (+)	Ch.2 Input 5-24VDC (-)	Ch.2 Input 5-24VDC (+)	Ch.3 Input 5-24VDC (-)	Ch.3 Input 5-24VDC (+)	Ch.4 Input 5-24VDC (-)	Ch.4 Input 5-24VDC (+)	(-) 9-36VDC input	(+) 9-36VDC input

GENERAL OPERATION

Transmission occurs when 5-24VDC is applied to the input. Transmission continues while 5-24VDC is present and ceases when 5-24VDC is removed.



CONTROLS & INDICATORS



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DIGITAL ADDRESS, FREQUENCY & REPEATER MODE SET-UP

The unit is shipped from the factory with all SEL1 and SEL2 switches in the open positions. By default, it is operating on Digital Address #1, Frequency #1 and the command transmitted will not be repeated by the receivers. If you wish to transmit on a different address and/or frequency, and/or set the unit to transmit a repeating packet, follow the instructions on the table below.

Note – only change digital address if using with a digitally addressable receiver. Otherwise, the digital address *must be kept at the default of Digital Address "1"*.

- 1) Remove power from unit and remove top cover.
- Select desired digital address, network frequency and repeater mode using tables below.
- 3) Reattach cover and apply power. Programming is now complete.

DIGITAL ADDRESS SET-UP SEL2 (SW1 - 4) Digital SW1 SW2 SW3 SW4 Address OPEN OPFN OPFN OPFN 1 (default) CLOSED OPEN OPEN OPEN 3 **OPEN CLOSED OPEN OPEN** CLOSED CLOSED OPEN OPEN 4 OPEN CLOSED **OPEN** 5 **OPEN** 6 CLOSED OPEN CLOSED OPEN SEL2 (SW1-4) 7 OPEN CLOSED CLOSED **OPEN** 8 CLOSED CLOSED CLOSED **OPEN** 9 **OPEN OPEN** OPEN CLOSED 10 **OPEN OPEN** CLOSED CLOSED OPEN 11 **OPEN** CLOSED CLOSED 12 CLOSED CLOSED **OPEN** CLOSED 13 OPEN OPFN CLOSED CLOSED CLOSED OPEN CLOSED CLOSED 14 15 OPEN CLOSED CLOSED **CLOSED** 16 CLOSED CLOSED CLOSED CLOSED SEL2 (SW5-7) - Leave in OPEN position!!

FREQUENCY SET-UP						
SEL1 (SW1-3)						
3)	Network Frequency	SW1	SW2	SW3		
	1 (default)	OPEN	OPEN	OPEN		
	2	CLOSED	OPEN	OPEN		
	3	OPEN	CLOSED	OPEN		
SEL. SW1.	4	CLOSED	CLOSED	OPEN		
)	5	OPEN	OPEN	CLOSED		
	6	CLOSED	OPEN	CLOSED		
	7	OPEN	CLOSED	CLOSED		
	8	CLOSED	CLOSED	CLOSED		

REPEATER MODE				
SEL1 SWITCH NUMBER	OPEN	CLOSED		
SW4	Repeater Mode OFF (default)	Repeater Mode ON		

SPECIFICATIONS

DC Input	9-36VDC Input @ 10 W Fuse Protected – 1A Slo-Blo			
20 mpat	1 400 1 10100104 171 010 210			
Transmit Data	Four 5-24VDC Inputs			
Transmit Frequency	900MHz Spread Spectrum			
RF Output Power	250 mW			
Transmit Range	Up to 2500 Feet w/standard antenna			
Note: 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.				
RF Networks	Eight Independent Frequencies			
Enclosure	Polycarbonate, IP66 (NEMA 4)			
Operating Temperature	-40° F to +185° F			

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				
Bulkhead Extensions – Used to provide an external antenna connection when mounting control unit inside another enclosure				
TNC Male to TNC Bulkhead Cable Assembly - Available in 2', 4', 7' Lengths 49-5004-X-ISC (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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