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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT 900MHz 8 Input Transmitter MODEL 44-1800-DC

DESCRIPTION

The AIR-EAGLE XLT RF TRANSMITTER IS an eight input unit designed to transmit unique signals to an Air-Eagle Receiver(s) located up to 2500 feet (or more) away. The Air-Eagle XLT TX is user-programmable for up to seven network frequencies to allow multiple transmitters to operate simultaneously in the same area and utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments. A terminal strip has been provided for interfacing with external dry contact inputs. This unit can operate remote machinery such as pumps, gates, chutes etc.

INSTALLATION

DISCONNECT DC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT TRANSMITTER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side of the enclosure. Attach the supplied portable antenna or coax for external antenna to this connector.
3. Connect AC power and control to the proper terminals in your control circuit.

TERMINAL STRIP WIRING – BOTTOM PCB

1	C Input #1	7	C Input #4
2	N/O Input #1	8	N/O Input #4
3	C Input #2	9	(-) 9-36 VDC INPUT
4	N/O Input #2	10	(+) 9-36 VDC INPUT
5	C Input #3		
6	N/O Input #3		

TERMINAL STRIP WIRING –TOP PCB

1	C Input #5	7	C Input #8
2	N/O Input #5	8	N/O Input #8
3	C Input #6	9	Not Used
4	N/O Input #6	10	Not Used
5	C Input #7		
6	N/O Input #7		



Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

DIGITAL ADDRESS & FREQUENCY SET-UP

This transmitter is factory programmed to Frequency #1 and Digital Address "0". These settings can be changed by the user in any combination **but must match the receiver that is set up to communicate with this transmitter.** **If using this transmitter with a model 44-8000 4-relay receiver, the digital address must be kept at the default of Digital Address "0".**

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

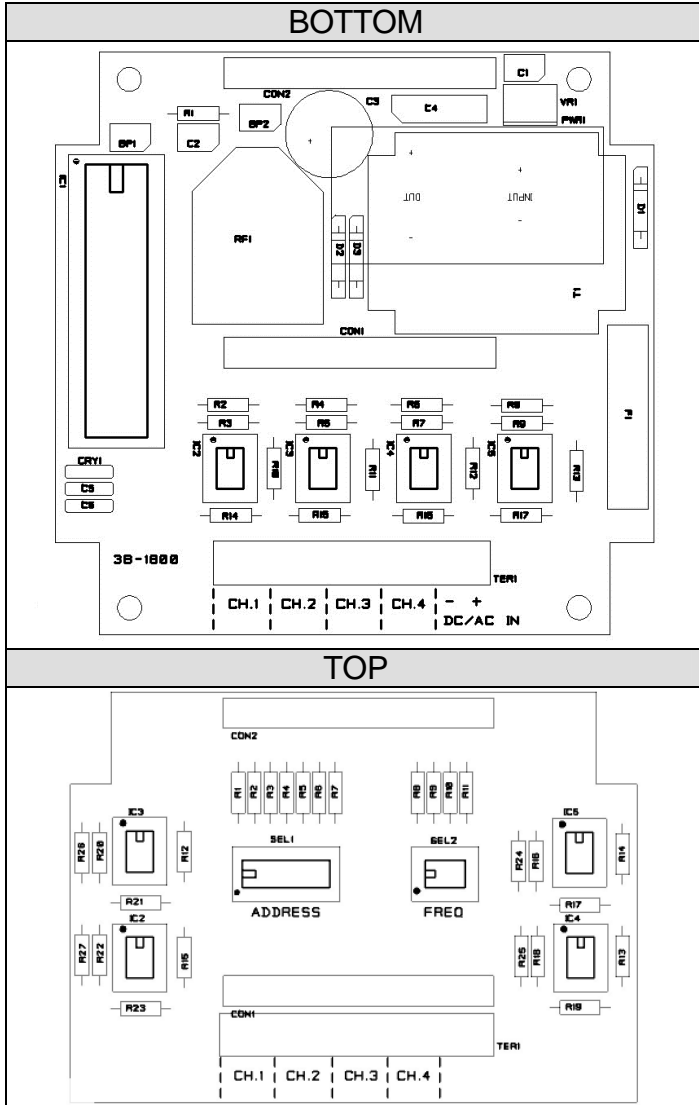
SEL1	Seven dip switches for selecting digital address of this transmitter (Maximum of 128 combinations)			
SEL 2 (SW 1-3): (NETWORK FREQUENCY)	Network Address	SW1	SW2	SW3
	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
SEL2 (SW4)	Reserved for future use			

AIR-EAGLE® XLT

900MHz 8 Input RF Transmitter

MODEL 44-1800-DC

CONTROLS AND INDICATORS



LED1	Illuminated green when power is applied. Changes to red when transmitting data.
Inputs 1 thru 8	Eight normally open dry contact inputs

APPROVALS

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

SPECIFICATIONS

AC Input	9 - 36 VDC @ 10 Watts
Fuse Protected	1 amp
RF Frequency	900MHz Spread Spectrum
Input Channels	8 Dry Contact Inputs
RF Output Power	100 mW
Transmitter Range	Approximately 2500 feet
Transmitter Frequencies	7 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate / NEMA 4, 4x, 12 + 13
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 (XX = # of Feet)
Inline Lightning Arrestor	49-5002
* = Line of Sight	

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 of 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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