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PRODUCT INFORMATION BULLETIN

AIR-EAGLE[®] XLT, Gen.3 900 MHz RF Transceiver MODEL 444-4000-2B-120VAC

DESCRIPTION

The AIR-EAGLE XLT RF TRANSCEIVER IS a four I/O unit designed to transmit and receive unique signals from another transceiver located up to 2500 feet (or more) away. This model comes equipped with two pushbutton inputs, two contact inputs and four relay outputs. This allows the user to not only transmit information out, but receive a confirming signal back that the operation was performed. The Air-Eagle XLT TRX is user-programmable for up to 128 digital addresses and seven network frequencies to allow multiple transceivers to operate simultaneously in the same area. This unit can operate remote machinery such as pumps, gates, chutes etc.

INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT TRANSCEIVER in a convenient location.
2. Determine if unit is to be designated as "Master" or "Slave" and set SEL2 (SW4) accordingly (see table right)

The "MASTER" unit is the central unit that receives transmissions from all of the slave units. There can be only one Master per group of transceivers. The "SLAVE" units communicate only to the Master unit. There can be multiple slave units.

3. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
4. Connect AC power and control to the proper terminals in your control circuit.

TERMINAL STRIP WIRING

BOTTOM PCB					
1	N/O Relay #1	7	N/O Relay #3	13	120 VAC - (Neutral)
2	C Relay #1	8	C Relay #3	14	120 VAC - (Hot)
3	N/C Relay #1	9	N/C Relay #3		
4	N/O Relay #2	10	N/O Relay #4		
5	C Relay #2	11	C Relay #4		
6	N/C Relay #2	12	N/C Relay #4		
TOP PCB					
1	Button #1 Input C	6	N/O Input #3		
2	Button #1 Input N/O	7	C Input #4		
3	Button #2 Input C	8	N/O Input #4		
4	Button #2 Input N/O	9	Not Used		
5	C Input #3	10	Not Used		



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

DIGITAL ADDRESS, FREQUENCY, and MASTER/SLAVE UNIT SET-UP

This transceiver is factory programmed to Frequency #1, Digital Address "0", and is designated as a "slave" unit unless preset otherwise by request. These settings can be changed by the user in any combination **but must match its corresponding transceiver.**

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

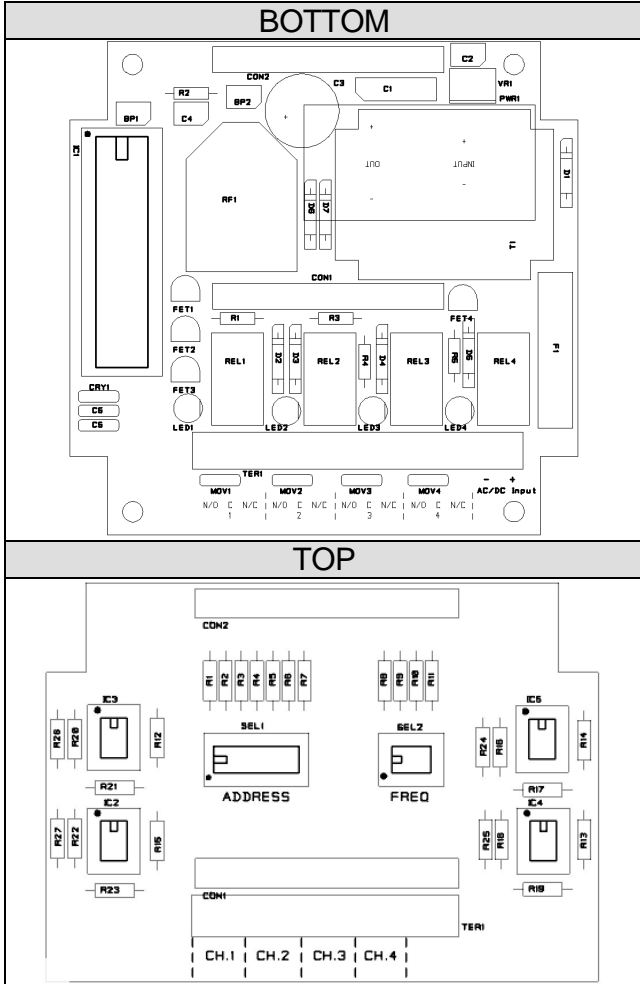
SEL1 (ADDRESS)	Seven dip switches for selecting digital address of this transmitter (Maximum of 128 combinations)			
SEL 2 (SW 1-3): (NETWORK FREQUENCY)	Network Address	SW1	SW2	SW3
	1 (default)	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
SEL2 (SW4) (MASTER/SLAVE)	Unit Designation	SW4		
	"Master"	CLOSED		
	"Slave" (default)	OPEN		

AIR-EAGLE® XLT, Gen.3

900 MHz RF Transceiver

MODEL 444-4000-2B-120VAC

CONTROLS AND INDICATORS



LED1 – LED4	Will be illuminated when the corresponding relay is energized
Inputs 1 and 2	Prewired to included pushbuttons
Inputs 3 and 4	Two dry contact inputs
REL1 thru REL4	Four SPDT output control relays

RELAY OPERATION

Button or Input Signal Received	Relay Function
1	Relay 1 Energizes, Momentary
2	Relay 2 Energizes, Momentary
3	Relay 3 Energizes, Momentary
4	Relay 4 Energizes, Momentary

SPECIFICATIONS

DC Input	120 VAC, 16 W, 50/60 Hz
Relay Contacts	SPDT 5 amp @ 120 VAC or 50 VDC
Fuse Protected	1 amp
Transceiver Frequency	900 MHz Spread Spectrum
RF Output Power	100 mW
Transceiver Range	Approximately 2500 feet w/standard antenna
Transceiver Channels	7 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate / NEMA 4, 4x, 12 + 13
Operating Temperature	-40° F to +185° F

APPROVALS

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

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	444-4002-2B-120VAC
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 Lightening 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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