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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT 900 MHz RF Receiver MODEL 44-20100-X

DESCRIPTION

The AIR-EAGLE XLT is an RF system designed for medium to long range wireless remote control of electrical apparatus in a variety of industrial applications. Systems can consist of any number of receivers and handheld or contact input transmitters working together. This receiver is equipped with a single relay capable of switching 5 amps @ 120VAC or 30VDC and can be directly interfaced with the customer's equipment or P.L.C. Seven user selectable frequencies allow multiple systems to be used in the same area. Capable of receiving remote signals transmitted from up to 2500 feet away (with the handheld transmitter) or up to 2 miles away (with the contact input transmitter), the Air-Eagle XLT utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

MODEL INFORMATION

In this model the "-X" denotes that the user can select which transmitter input channel or button activates the relay – see CHANNEL CODE & FREQUENCY SET-UP on page 2.

APPROVALS

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

INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT RECEIVER in a convenient location.
2. If desired, change the default channel code and/or operating frequency.
3. Install wiring to terminal strip
4. Install antenna. The unit has an antenna connector located on the top of the enclosure. Attach the supplied portable antenna to this connector.
5. Plug supplied AC adapter into 120VAC wall outlet.

TERMINAL STRIP WIRING

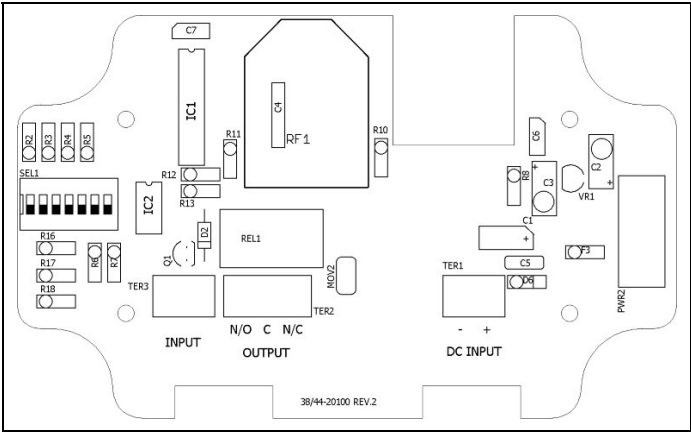
TER 3 INPUT		TER 2 RELAY OUTPUT		TER 1 AC/DC POWER INPUT	
1	N/A	1	N/O	1	(-) 9-36VDC *
2	N/A	2	C (common)	2	(+) 9-36VDC*
		3	N/C		

*From supplied 120VAC wall adapter



Dimensions (with mounting plate) 7.07L x 3.57W x 1.62H

CONTROLS AND INDICATORS



Power – LED1	Illuminates green when unit is powered
TX – LED2	N/A
Relay – LED3	Illuminates green when relay is energized
RF1	RF module that receives data from the remote transmitter
REL1	SPDT output control relay
SEL1	Seven dip switches for selecting relay options and operating frequency

AIR-EAGLE® XLT

900 MHz RF Receiver

MODEL 44-20100-X

CHANNEL CODE & FREQUENCY SET-UP

The unit is shipped from the factory with all SEL1 switches in the open positions. By default, it is receiving Channel #1 code and operating on Frequency #1. If you wish to receive a different channel code or and/or change the frequency, follow the instructions on the table below.

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

CHANNEL SELECTION SET-UP

Channel Code To Be Received	SW1	SW2	SW3	SW4
1 (default)	OPEN	OPEN	OPEN	OPEN
2	CLOSED	OPEN	OPEN	OPEN
3	OPEN	CLOSED	OPEN	OPEN
4	CLOSED	CLOSED	OPEN	OPEN
5	OPEN	OPEN	CLOSED	OPEN
6	CLOSED	OPEN	CLOSED	OPEN
7	OPEN	CLOSED	CLOSED	OPEN
8	CLOSED	CLOSED	CLOSED	OPEN
9	OPEN	OPEN	OPEN	CLOSED
10	CLOSED	OPEN	OPEN	CLOSED
11	OPEN	CLOSED	OPEN	CLOSED
12	CLOSED	CLOSED	OPEN	CLOSED
13	OPEN	OPEN	CLOSED	CLOSED
14	CLOSED	OPEN	CLOSED	CLOSED
15	OPEN	CLOSED	CLOSED	CLOSED
16	CLOSED	CLOSED	CLOSED	CLOSED

FREQUENCY SET-UP

Network Frequency	SW5	SW6	SW7
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

DOCUMENT DATE: 6/7/17 / PRODUCT REV. 2



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SPECIFICATIONS

AC Input	100-240VAC, 16 W, 50/60 Hz from supplied wall adapter
Relay Contact	SPDT 5 amp @ 120VAC or 30VDC
Fuse Protected	1 amp
Receiver Frequency	900 MHz Spread Spectrum
Receiver Range – Dependant upon transmitter – see below:	
Using Handheld TX	Approximately 2500 feet
Using Stationary TX & External Antenna	Up to 2 Miles
Receiver Channels	Seven independent network frequencies
Operating Temperature	-40° F to +185° F
Enclosure	Polycarbonate NEMA 4, 12, 13 – IP66
Weight	Approx 2 lbs.

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	44-20102-X
Standard Antenna (Included):	
900MHz Portable Antenna (For distances up to 2500 feet*)	49-1103
Optional Antennas and Accessories – Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations	
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
2 Ft. Bulkhead Assembly (Used when mounting receiver inside another enclosure)	49-5004-2

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.