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PRODUCT INFORMATION BULLETIN

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

DESCRIPTION

The AIR-EAGLE XLT, MODEL 44UL-1800-DC is a UL/CSA approved R.F. transmitter capable of sending eight dry contact input commands to an Air-Eagle XLT Receiver. 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 of up to 2500 feet away (Up to 2 mile range with optional antennas). This unit is user-programmable for up seven network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

Please read through this document in its entirety before proceeding with installation.

INSTALLATION

DISCONNECT DC Power from all equipment before installation.

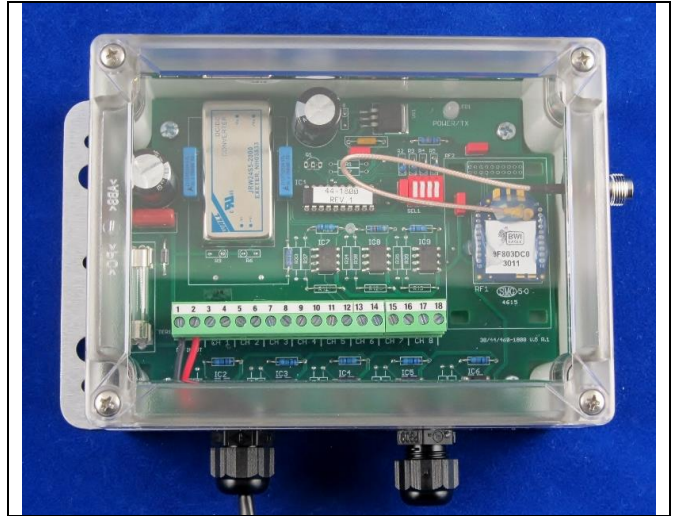
1. Mount the control unit in a suitable location that allows the user to easily remove the lid of the enclosure for wiring access. When possible select a location that is not directly beside high energy transformers or large inductive relay housings. It is recommended to allow for a minimum of 2.0" clearance on all sides of the unit's housing & mounting plate. The power and control wiring exiting thru the provided cord grips should have ample room to bend without excessive stress. It is also important that any coax cable connected to the TNC connector have room to bend without "kinking".
2. Install dry contact input wiring to terminal strip (TER1).
3. Attach supplied rubber duck antenna to TNC connector on the right side of the unit.
4. Connect DC power to the proper terminals in your control circuit.

Note 1: (6) #10 thru holes & (4) 1/4-20 thru holes are provided on the mounted plate to secure the unit)

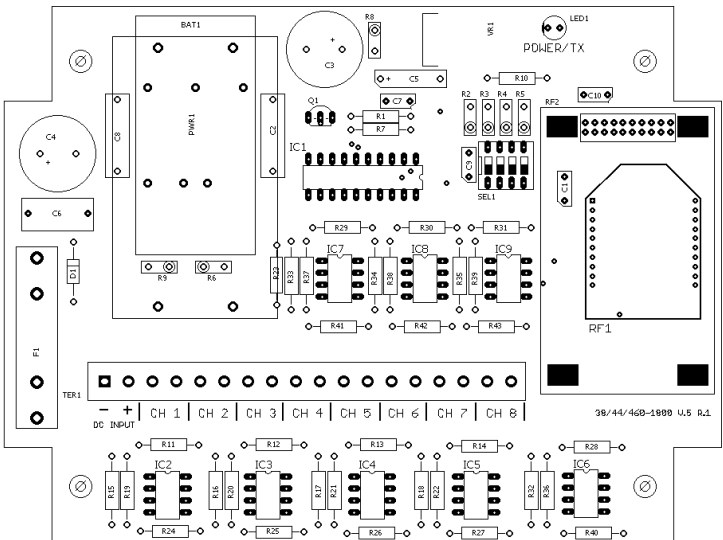
Note 2: The recommended power/control wire sizes to the terminal strip ranges from 24 AWG (0.205mm²) (min) to 18 AWG (0.823mm²) (max).

TERMINAL STRIP WIRING

1	(-) 10 - 24 VDC		
2	(+) 10 - 24 VDC		
3	Input 1 Common	11	Input 5 Common
4	Input 1	12	Input 5
5	Input 2 Common	13	Input 6 Common
6	Input 2	14	Input 6
7	Input 3 Common	15	Input 7 Common
8	Input 3	16	Input 7
9	Input 4 Common	17	Input 8 Common
10	Input 4	18	Input 8



CONTROLS & INDICATORS



POWER/TX LED	Illuminated green when power is applied. Changes to red when transmitting data.
Inputs 1 thru 8	Eight normally open dry contact inputs
SEL1	Dip switch bank for selecting operating frequency
RF1	RF module that transmits data to the remote receiver

AIR-EAGLE® XLT

900MHz RF Transmitter

MODEL 44UL-1800-DC

FREQUENCY SET-UP

This transmitter is shipped with the SEL1 switches in the open positions and is operating on Frequency 1. If you wish to change the default frequency setting, follow the instructions below:

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

SEL1 (SW 1-3): <i>(NETWORK FREQUENCY)</i>	Network Frequency	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
SEL1 (SW4)	Reserved for future use			

UL SPECIFICATIONS & CLASSIFICATIONS

SPECIFICATIONS	
DC Input	10 – 24 VDC @ 10 Watts
Fuse Protected	1 amp
RF Frequency	2.4GHz Spread Spectrum
Input Channels	8 Dry Contact Inputs
RF Output Power	250 mW
Transmitter Range	Approximately 2500 Feet w/Standard Antenna
Transmitter Frequencies	7 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate, IP66 Approved
Operating Temperature	-10° C to +55° C
Altitude	Under 2000 meters
CLASSIFICATIONS	
Automatic Control and Electrically Operated Control	
Incorporated Control and an Independently Mounted Control	
Type 1.C Action; Micro-Interruption	
PTI of Materials Used for Insulation: Material Group IIIb	
Electrical Shock Risk: Class II Control	
Period of Electrical Stress Across Insulating Parts Supporting Live Parts: Long Period	
Pollution Degree 2	

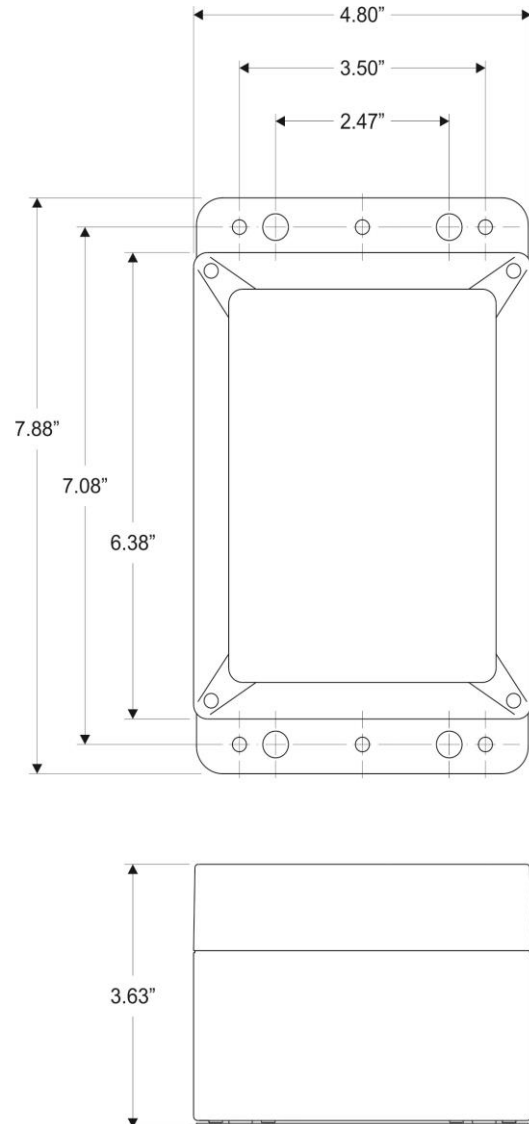
APPROVALS

UL/CSA Approved	
United States (FCC)	MCQ-XB900HP
Canada (IC)	1846A-XB900HP

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	44UL-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)
2 Ft. Bulkhead Assembly (Used when mounting unit inside another enclosure)	49-5004-2-ISO
* = Line of Sight	

DIMENSIONS



AIR-EAGLE® XLT

900MHz 8 Input RF Transmitter

MODEL 44UL-1800-DC

REPAIR STATEMENT

NO USER SERVICEABLE PARTS! RETURN TO THE
MANUFACTURER FOR SERVICE.

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.

DOCUMENT DATE: 11/9/18 / PRODUCT REV.4



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