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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT PLUS

900MHz 20 Dry Contact Input Transmitter

MODEL 461-12000-120VAC

DESCRIPTION

The Air-Eagle XLT PLUS TX is an R.F. transmitter capable of sending twenty dry-contact input commands to an Air-Eagle XLT Plus Receiver located up to a mile away (*). 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. Seven user-selectable frequencies allow multiple systems to operate simultaneously in the same area without interference.

(*) - Longer distances can be achieved by using external antennas)

INSTALLATION

DISCONNECT AC Power from all equipment before installation.

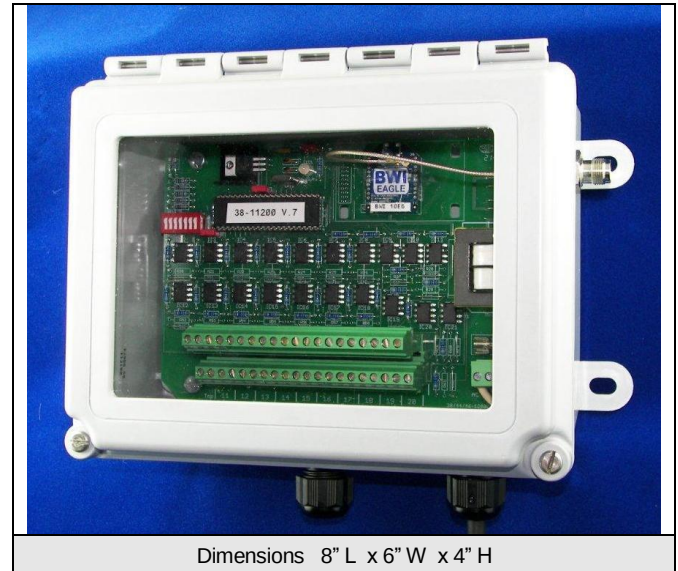
1. Mount the Air-Eagle XLT PLUS TRANSMITTER in a convenient location.
2. Install transmit control wiring to input terminal strip
3. Install antenna onto connector located on the right side on the enclosure.
4. Connect AC power to the supplied AC power input cable.

FREQUENCY SET-UP

This unit is shipped from the factory with SEL1 switches in the open positions and is operating on frequency #1. If you wish to change the default setting follow the instruction below.

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

SEL1 (SW 1-4)	Not used on this model			
SEL 1 (SW 5-7): (NETWORK FREQUENCY)	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



TERMINAL STRIP WIRING

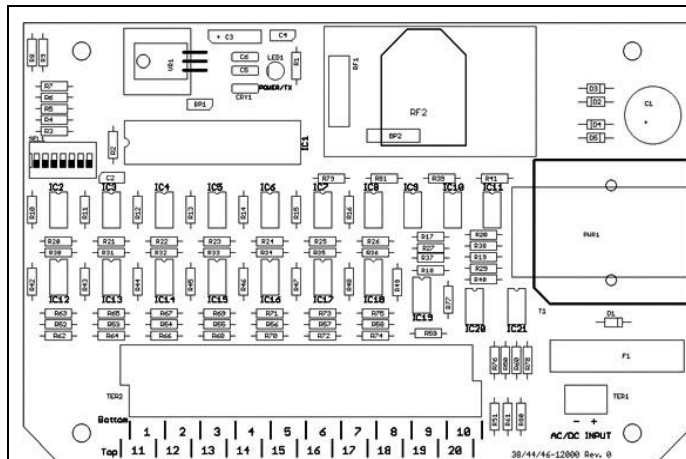
BOTTOM TERMINAL BLOCK			
1	C Input #1	11	C Input #6
2	N/O Input #1	12	N/O Input #6
3	C Input #2	13	C Input #7
4	N/O Input #2	14	N/O Input #7
5	C Input #3	15	C Input #8
6	N/O Input #3	16	N/O Input #8
7	C Input #4	17	C Input #9
8	N/O Input #4	18	N/O Input #9
9	C Input #5	19	C Input #10
10	N/O Input #5	20	N/O Input #10
TOP TERMINAL BLOCK			
1	C Input #11	11	C Input #16
2	N/O Input #11	12	N/O Input #16
3	C Input #12	13	C Input #17
4	N/O Input #12	14	N/O Input #17
5	C Input #13	15	C Input #18
6	N/O Input #13	16	N/O Input #18
7	C Input #14	17	C Input #19
8	N/O Input #14	18	N/O Input #19
9	C Input #15	19	C Input #20
10	N/O Input #15	20	N/O Input #20
AC INPUT TERMINAL BLOCK			
1	120 VAC Neutral	2	120 VAC Hot

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900 MHz 20 Input RF Transmitter

MODEL 461-12000-120VAC

CONTROLS AND INDICATORS



LED1	Illuminated green when power is applied. Changes to red when transmitting data.
Inputs 1 thru 20	Twenty normally open dry contact inputs

APPROVALS

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

SPECIFICATIONS

AC Input	120 VAC, 16 W, 50/60 Hz
Fuse Protected	1 amp
RF Frequency	900 MHz Spread Spectrum
Input Channels	20 Dry Contact Inputs
RF Output Power	1W
Transmitter Range	Approximately 1 Mile with Rubber Duck Antenna / Up to 10 Miles with External High Gain Antenna
Transmitter Frequencies	7 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Fiberglass / NEMA 4, 12 + 13
Operating Temperature	-40° F to +185° F

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	461-12002
Standard Antenna (Included):	
900MHz Portable Antenna (For distances up to 1 mile)	49-1103
Optional Antennas and Accessories:	
900MHz Omni Directional Antenna (For distances up to 5 miles*)	49-3101
900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 10 miles*)	49-3102
Flex Coax Cable w/Connectors	49-4000-XX (XX = # of Feet)
* = 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 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.

DOCUMENT DATE: 03/01/2019 / PRODUCT REV. 1



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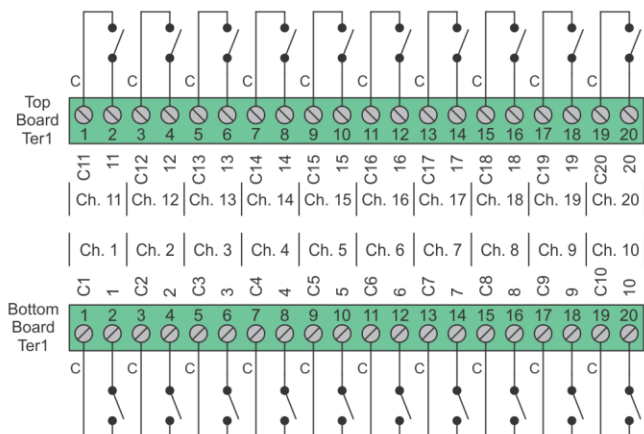


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DRY CONTACT INPUT WIRING 20-Input Transmitter

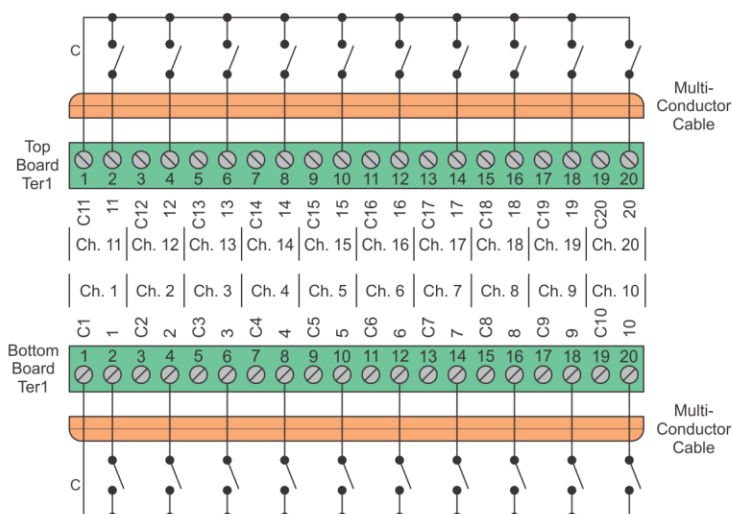
Standard wiring of a dry contact input transmitter

Shorting together the contacts of the respective channel will cause it to transmit. This can be done with any type of manual or automatic switch.



Standard Wiring for Common Ground Applications

Because each channel shares a common (C) terminal, inputs can be wired as shown to allow for fewer conductors to be run to the transmitter.



SPDT Switches

The common (C) terminal of the switch only needs to be connected to one of the channels ground terminal. In this configuration ten channels would be transmitting all the time. A switch with a center "off" position would allow transmitting to stop.

In this example channels 2, 4, 6, 8, 10, 12, 14, 16, 18, and 20 are transmitting.

