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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT PLUS 900MHz RF Transceiver MODEL 461-40800-AC

DESCRIPTION

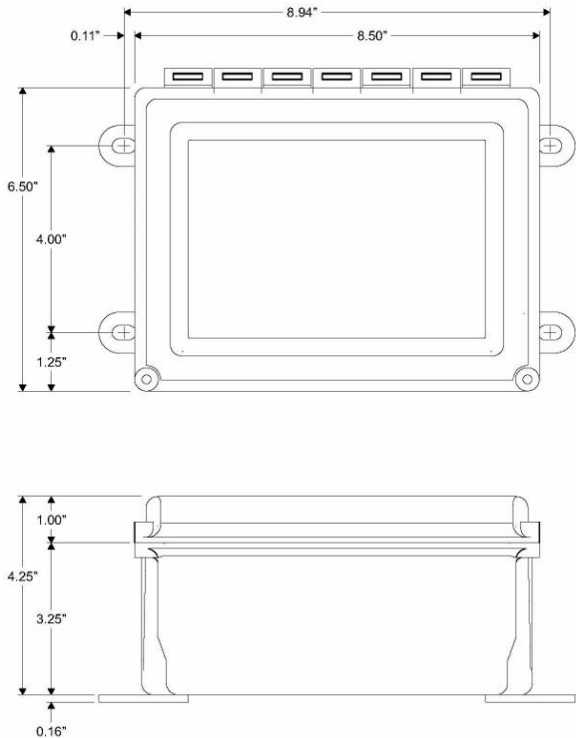
The AIR-EAGLE XLT PLUS RF TRANSCEIVER provides two-way wireless control of electronic equipment and apparatus at distances up to 1 mile (*). This model comes equipped with eight dry contact inputs and eight relay outputs. This allows the user to not only transmit information out, but receive a confirming signal back that the operation was performed. A terminal strip has been provided for interfacing with external dry contact inputs as well as dry contact relay outputs. The Air-Eagle XLT TRX is user-programmable for up seven network frequencies to allow multiple systems to operate simultaneously in the same area.
(*) - 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 RECEIVER in a convenient location.
2. Install input and output wiring to terminal strip.
3. Install antenna to connector located on the right side on the enclosure.
4. Connect AC power to the proper terminals in your control circuit.

DIMENSIONS



(DC Powered Model Pictured)

TERMINAL STRIP WIRING

RELAY OUTPUTS					
1	N/O Relay #1	10	N/O Relay #4	19	N/O Relay #7
2	C Relay #1	11	C Relay #4	20	C Relay #7
3	N/C Relay #1	12	N/C Relay #4	21	N/C Relay #7
4	N/O Relay #2	13	N/O Relay #5	22	N/O Relay #8
5	C Relay #2	14	C Relay #5	23	C Relay #8
6	N/C Relay #2	15	N/C Relay #5	24	N/C Relay #8
7	N/O Relay #3	16	N/O Relay #6		
8	C Relay #3	17	C Relay #6		
9	N/C Relay #3	18	N/C Relay #6		
CONTACT INPUTS					
1	Common Input 1	10	Input 5		
2	Input 1	11	Common Input 6		
3	Common Input 2	12	Input 6		
4	Input 2	13	Common Input 7		
5	Common Input 3	14	Input 7		
6	Input 3	15	Common Input 8		
7	Common Input 4	16	Input 8		
8	Input 4	17	Not Used		
9	Common Input 5	18	Not Used		
AC INPUT					
Terminal #1		120 VAC - (Neutral)			
Terminal #2		120 VAC - (Hot)			

AIR-EAGLE® XLT PLUS

900MHz RF Transceiver

MODEL 461-40800-AC

APPROVALS

United States (FCC)	OUR-9XTEND
Canada (IC)	4214A-9XTEND

GENERAL OPERATION

Contact closures on inputs 1 thru 8 in the control transceiver transmit to activate relays #1 thru #8 in the remote transceiver. Inputs from the remote equipment provide closures to remote transceiver that transmit to energize relays 1 thru 8 in the control transceiver.

INPUT ACTIVATED	ACTION
"1"	Transmits channel 1 command to remote unit
"2"	Transmits channel 2 command to remote unit
"3"	Transmits channel 3 command to remote unit
"4"	Transmits channel 4 command to remote unit
"5"	Transmits channel 5 command to remote unit
"6"	Transmits channel 6 command to remote unit
"7"	Transmits channel 7 command to remote unit
"8"	Transmits channel 8 command to remote unit
INPUT CODE RECEIVED	ACTION
"1"	Relay #1 energizes, maintained momentary
"2"	Relay #2 energizes, maintained momentary
"3"	Relay #3 energizes, maintained momentary
"4"	Relay #4 energizes, maintained momentary
"5"	Relay #5 energizes, maintained momentary
"6"	Relay #6 energizes, maintained momentary
"7"	Relay #7 energizes, maintained momentary
"8"	Relay #8 energizes, maintained momentary

SPECIFICATIONS

AC Input	110-240 VAC, 8 W, 50/60 Hz
Fuse Protected	2 amp
Frequency	900MHz Spread Spectrum
Relay Contacts	SPDT 5 amp @ up to 120VAC or 30VDC per channel
Transmitter Data	Eight Dry Contact Inputs
RF Output Power	1W
Transceiver Range	Approximately 1 Mile (Up to 10 miles with external antenna - see accessories)
RF Networks	Seven Independent Network Frequencies
Enclosure	Hinged fiberglass with window / NEMA 3, 3R, 4,12, 13
Operating Temp	-40° F to +185° F

RELAY & FREQUENCY SET-UP

This unit is shipped from the factory with the SEL1 switches in the open positions. All eight relays will operate in a maintained momentary manor, and unit is receiving commands on frequency one. If you wish to change these default settings, follow the instructions on the table below.

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

RELAY CONFIGURATION				
SEL1 SWITCH NUMBER	OPEN	CLOSED		
SW1	Relays #1 thru #8 maintained momentary (default)	Relays #1 thru #8 toggle/latch		
<p>Maintained Momentary – Relay mimics button or input – when depressed or closed, relay will be energized; when released, relay de-energizes</p> <p>Toggle Latch – Relay changes (and holds) its state each time the corresponding button or input is depressed or closed momentarily</p>				
SW2-4	Not used on this model			
FREQUENCY SET-UP				
SEL1	Network Frequency	SW5	SW6	SW7
(SW5-7)	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

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	461-40802-AC
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	

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