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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT PLUS High Power 900MHz RF Receiver DUAL RELAY OUTPUT MODEL 460-5000-120VAC

### DESCRIPTION

The AIR-EAGLE XLT PLUS is one of a series of RF systems designed for long-range wireless remote control in a variety of industrial applications. Each system, consisting of a receiver and contact-input transmitter can be configured to remotely control pumps, lights, conveyors, gates and other electrical apparatus. Integral high current relays can be directly interfaced with the customer's equipment or P.L.C. The Air-Eagle XLT Plus is capable of receiving remote signals transmitted from several miles away. The model 460-5000 utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

### APPROVALS

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

### INSTALLATION

1. Mount the AIR-EAGLE XLT PLUS RECEIVER IN a convenient location.
2. Install relay control wiring to the I/O terminal strip.
3. Attach rubber duck antenna or coax from external antenna to connector on side of enclosure.
4. Plug supplied AC adapter into wall outlet.

### PC BOARD SET-UP INFORMATION

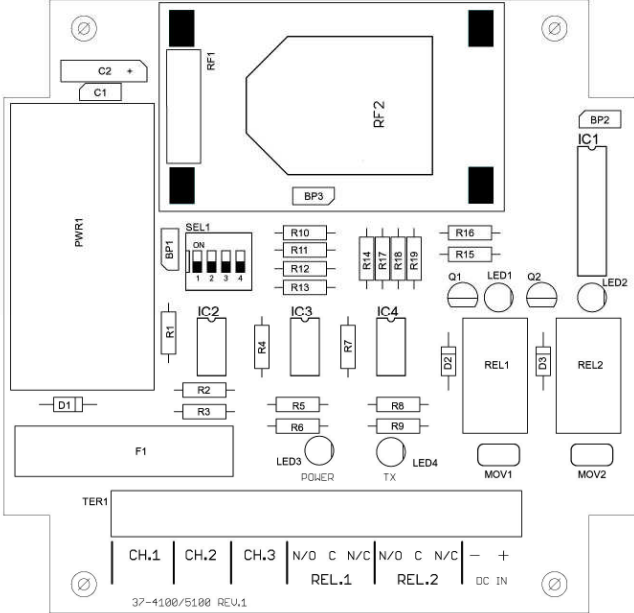
Make the following connections on the PC Board Terminal Strip (TER1)

TERMINAL STRIP WIRING (TER1)	
Terminal 1	Not Used
Terminal 2	Not Used
Terminal 3	Not Used
Terminal 4	Not Used
Terminal 5	Not Used
Terminal 6	Not Used
Terminal 7	N/O Relay 1
Terminal 8	C Relay 1
Terminal 9	N/C Relay 1
Terminal 10	N/O Relay 2
Terminal 11	C Relay 2
Terminal 12	N/C Relay 2
Terminal 13	Negative (-) 12VDC INPUT from 120VAC adapter
Terminal 14	Positive (+) 12VDC INPUT from 120VAC adapter



### CONTROLS & INDICATORS

LED1	Illuminates green while relay 1 is energized
LED2	Illuminates green while relay 2 is energized
LED4	Illuminates green when power is applied to receiver



# AIR-EAGLE® XLT PLUS

High Power 900MHz RF Receiver  
DUAL RELAY OUTPUT

**MODEL 460-5000-120VAC**

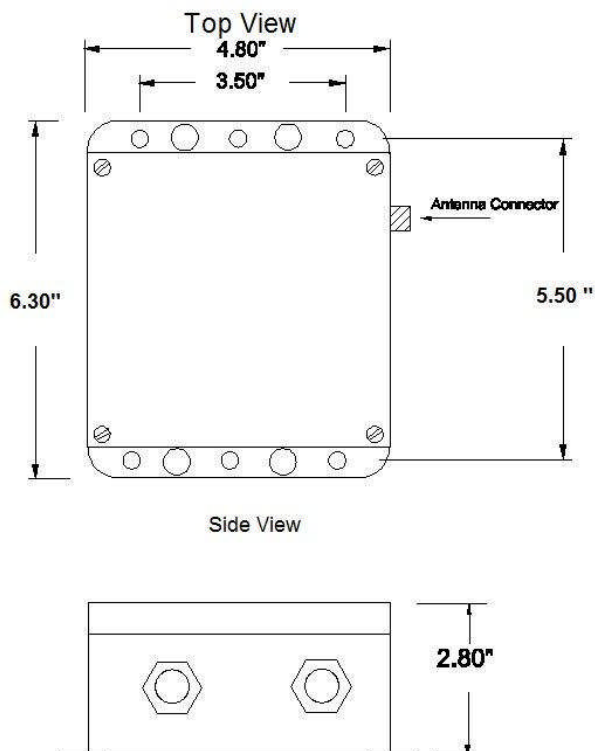
## FREQUENCY SET-UP

NETWORK SWITCH OPTIONS (SEL1)				
SEL 1 SW1, 2 & 3):	Network Address	SW1	SW2	SW3
<i>USED TO SET NETWORK FREQUENCY ADDRESS</i>	#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
	#8	CLOSED	CLOSED	CLOSED

## RELAY SET UP AND OPERATION

RELAY SET-UP OPTIONS (SEL1 – SW4)	
Open	10 Second Signal Loss Off-Delay (Default)
Closed	60 Second Signal Loss Off-Delay
RELAY OPERATION	
TX Signal Received	Relay Function
Input 1 Closed	Relay 1 energizes, maintained momentary
Input 2 Closed	Relay 2 energizes, maintained momentary

## DIMENSIONS



## SPECIFICATIONS

Power Supply	120VAC from wall adapter
Fuse Protected	2 amp
Relay Contacts	SPDT 5 amp @ 120 VAC or 50 VDC
Receiver Range	Approximately 1 Mile (Up to 25 miles with external antenna - see accessories)
Receiver Frequency	900MHz Spread Spectrum
RF Channels	Eight independent network frequencies
Enclosure	ABS Plastic, NEMA 3, 3R, 4, 4X, 12, 13
Operating Temp	-40° F - +185° F

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	460-5002
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 10 miles*)	49-3101
900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 25 miles*)	49-3102
Flex Coax Cable w/Connectors	49-4000-XX (XX = # of Feet)
Inline Lightning 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 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.

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