



105 Bonnie Drive  
Butler, PA 16002  
724-283-4681  
724-283-5939 (fax)  
www.bwieagle.com

# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® SR PLUS 2.4 GHz RF Transceiver MODEL 36-4000-120I-120VAC

### DESCRIPTION

The AIR-EAGLE SR PLUS RF TRANSCEIVER IS A four I/O unit designed to transmit and receive unique signals from an identical unit located up to 1200 feet away. This model comes equipped with four 120VAC inputs and four high current SPDT relay outputs. This allows the user to not only transmit information out, but receive a confirming signal back that the operation was performed. The Air-Eagle SR PLUS TRX is user-programmable for up to 128 digital addresses and eight network frequencies to allow multiple transceivers to operate simultaneously in the same area and utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments. A terminal strip has been provided for interfacing with external dry contact inputs as well as dry contact relay outputs. This unit can operate remote machinery such as pumps, gates, chutes etc.

### INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR PLUS TRANSCEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect AC power and control to the proper terminals in your control circuit.

### TERMINAL STRIP WIRING – BOTTOM PCB

1	N/O Relay #1	7	N/O Relay #3	13	120 VAC - (Neutral)
2	C Relay #1	8	C Relay #3	14	120 VAC - (Hot)
3	N/C Relay #1	9	N/C Relay #3		
4	N/O Relay #2	10	N/O Relay #4		
5	C Relay #2	11	C Relay #4		
6	N/C Relay #2	12	N/C Relay #4		

### TERMINAL STRIP WIRING –TOP PCB

1	Input #1 120VAC (Hot)	7	Input #4 120VAC (Hot)
2	Input #1 120VAC (Neutral)	8	Input #4 120VAC (Neutral)
3	Input #2 120VAC (Hot)	9	Not Used
4	Input #2 120VAC (Neutral)	10	Not Used
5	Input #3 120VAC (Hot)		
6	Input #3 120VAC (Neutral)		



Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

### DIGITAL ADDRESS & FREQUENCY SET-UP

This transceiver is factory programmed to Frequency #1 and Digital Address "0". These settings can be changed by the user in any combination **but must match its corresponding transceiver.**

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

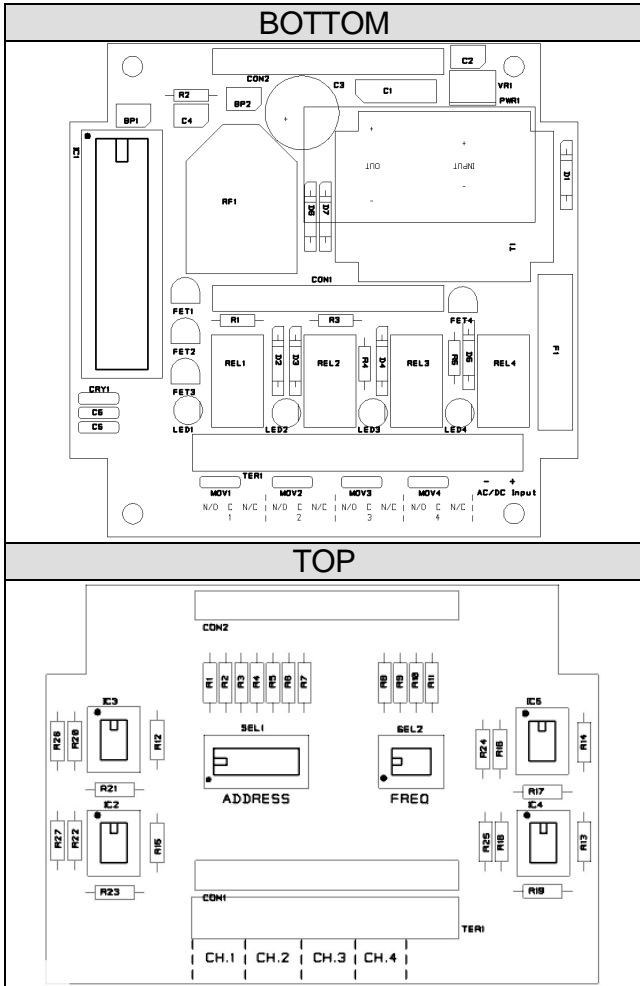
SEL1 (ADDRESS)	Seven dip switches for selecting digital address of this transmitter (Maximum of 128 combinations)			
SEL 2 (SW 1-3):  (NETWORK FREQUENCY)	Network Address	SW1	SW2	SW3
	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
8	CLOSED	CLOSED	CLOSED	
SEL2 (SW4)	Reserved for future use			

# AIR-EAGLE® SR PLUS

2.4 GHz RF Transceiver

**MODEL 36-4000-120I-120VAC**

## CONTROLS AND INDICATORS



LED1 – LED4	Will be illuminated when the corresponding relay is energized
Inputs 1 thru 4	Four 120VAC inputs
REL1 thru REL4	Four SPDT output control relays

## SPECIFICATIONS

AC Input	120 VAC, 16 W, 50/60 Hz
Relay Contacts	SPDT 5 amp @ 120 VAC or 50 VDC
Fuse Protected	1 amp
Transceiver Frequency	2.4 GHz Spread Spectrum
RF Output Power	60 mW
Transceiver Range	Approximately 1200 feet
Transceiver Channels	8 Independent Network Frequencies
Antenna Connection	TNC Bulkhead
Enclosure	Polycarbonate / NEMA 4, 4x, 12 + 13
Operating Temperature	-40° F to +185° F

## APPROVALS

United States (FCC)	OUR-XBEEPRO
Canada (IC)	4214A-XBEEPRO
Europe (CE)	ETSI

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	36-4002-120I-120VAC
Standard Antenna (Included):	
2.4GHz TNC Portable Antenna (For distances up to 1200 feet*)	49-1201
Optional Antennas and Accessories – Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations	
2.4GHz Thru-Hole Mount Mobile Antenna	49-2201
2.4GHz Magnetic Mount Mobile Antenna	49-2202
2.4GHz Omni Directional Antenna	49-3201
2.4GHz 13dB Yagi Antenna	49-3202
Flex Coax Cable w/Connectors – Connects external antenna(s) to base unit(s).	49-4000-XX (XX = # of Feet)
Inline Lightening 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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