

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 Transmitter **MODEL 36-10100-DC**

DESCRIPTION

The AIR-EAGLE SR PLUS TX is an R.F. transmitter capable of sending a single dry contact input command to an Air-Eagle SR Receiver from up to 600 feet away. Any number of transmitters and receivers can be combined to create a medium-range remote control system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations. This unit has eight user-selectable network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

APPROVALS

United States (FCC)	MCQ-XBEE3
Canada (IC)	1846A-XBEE3
Europe (CE)	ETSI

INSTALLATION

DISCONNECT Power from all equipment before installation.

- Mount the transmitter in a convenient location. 1.
- 2. Install input wiring to terminal strip.
- Install antenna onto antenna connector located on the right side on 3. the enclosure.
- Connect supplied power input cable to your external power source. 4

TERMINAL STRIP WIRING

DR	TER 3 RY CONTACT INPUT	T TER 2 RELAY OUTPUT			TER 1 AC/DC POWER INPUT		
1	Input 1 C	1	Not Used	1	(-) 9-36VDC		
2	Input 1	2	Not Used	2	(+) 9-36VDC		
		3	Not Used	3	Not Used		

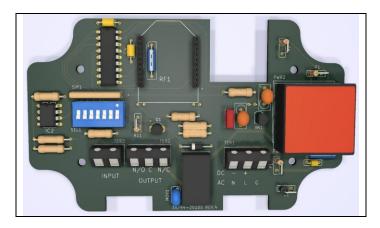
GENERAL OPERATION

A contact closure on the input transmits to energize relay 1 (or another relay as selected by the channel code transmitted) in any receiver within transmit range. The signal transmits continuously as long as the input is closed.



Dimensions (with mounting plate) 7.07L x 3.57W x 1.62H

CONTROLS AND INDICATORS



Power – LED1	Illuminates green when unit is powered		
TX – LED2	Illuminates red when unit is transmitting		
Relay – LED3	Not used on this model		
RF1	RF module that sends data to the remote receiver		
SEL1	Seven dip switches for selecting options & network frequency		
TER3	Dry contact input		
TER2	Relay output		
TER1	Power Input		

AIR-EAGLE® SR PLUS 2.4 GHz RF Transmitter

MODEL 36-10100-DC

CHANNEL CODE & FREQUENCY SET-UP

The unit is shipped from the factory with all SEL1 switches in the open positions. By default, it is transmitting Channel #1 code and operating on Frequency #1. If you wish to transmit a different channel code or and/or change the frequency, follow the instructions on the table below.

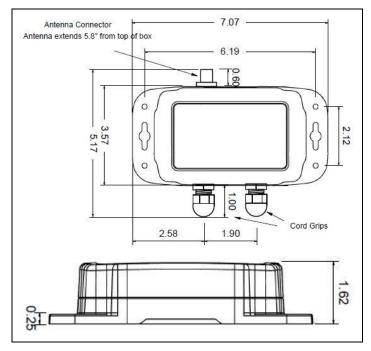
- 1) Remove power from unit then remove back cover.
- 2) Select desired channel code and/or frequency using table below.
- 3) Reattach cover and apply power. Programming is now complete.

CHANNEL SELECTION SET-UP							
	Channel Code To Be Transmitted		SW1		SW2	SW3	SW4
	1 (default) OPEN			OPEN	OPEN	OPEN	
	2		CLOSED)	OPEN	OPEN	OPEN
	3		OPEN		CLOSED	OPEN	OPEN
	4		CLOSED	CLOSED		OPEN	OPEN
I-4)	5		OPEN		OPEN	CLOSED	OPEN
(SW1-4)	6		CLOSED)	OPEN	CLOSED	OPEN
S)	7		OPEN		CLOSED	CLOSED	OPEN
5	8		CLOSED)	CLOSED	CLOSED	OPEN
SEL1	9		OPEN		OPEN	OPEN	CLOSED
0,	10		CLOSED)	OPEN	OPEN	CLOSED
	11 OPEN 12 CLOSED 13 OPEN		OPEN		CLOSED	OPEN	CLOSED
			CLOSED		CLOSED	OPEN	CLOSED
				OPEN	CLOSED	CLOSED	
	14		CLOSED)	OPEN	CLOSED	CLOSED
	15		OPEN		CLOSED	CLOSED	CLOSED
	16		CLOSED		CLOSED	CLOSED	CLOSED
			FREQ	UE	ENCY SET-U	JP	
			work quency		SW5	SW6	SW7
	SEL1		(default)	(OPEN	OPEN	OPEN
			2	CLOSED		OPEN	OPEN
			3	(OPEN	CLOSED	OPEN
(S			4	(CLOSED	CLOSED	OPEN
			5 (OPEN	OPEN	CLOSED
		6		(CLOSED	OPEN	CLOSED
			7	(OPEN	CLOSED	CLOSED
			8	(CLOSED	CLOSED	CLOSED

SPECIFICATIONS

Power Input	9 – 36 VDC, 5 W		
Transmitter Frequency	2.4 GHz Spread Spectrum		
RF Output Power	60 mW		
Transmit Range	Up to 600 Feet		
Note: Max range figures are estimates, based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including, but not limited to, indoor and outdoor structures such as walls, metal objects, trees, buildings, hills, and mountains.			
RF Networks	Eight Independent Frequencies		
Antenna Connection	TNC Female Connector		
Operating Temperature	Operating Temperature -40° F to +185° F		
Enclosure	Polycarbonate NEMA 4, 12, 13 – IP66		
Weight	Approx 2 lbs.		

DIMENSIONS



ACCESSORIES

Standard Antenna (Included):				
2.4GHz TNC "Rubber Duck" Antenna	49-1201			
Mobile/Base Antennas – Used to help achieve max 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 Magnet Mount Mobile Antenna	49-2202			
2.4GHz Omni Directional Base Antenna	49-3201			
2.4GHz Yagi Directional Base Antenna	49-3202			
High Quality Coax Cables –				
Used to connect external high gain antennas to con	ntrol unit			
Flex Coax Cable w/Connectors – Available in 5',15',25',30',40',60',80',100' Lengths	49-4000-XX (XX = # of Feet)			
Bulkhead Extensions – Used to provide an external antenna connection when mounting control unit inside another enclosure				
TNC Male to TNC Bulkhead Cable Assembly - Available in 2', 4', 7' Lengths	49-5004-X-ISO (X = # of Feet)			

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.

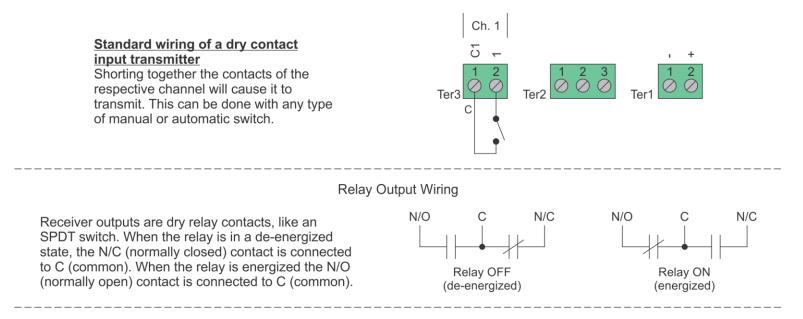
DOCUMENT DATE: 10/21/2021 / PRODUCT REV. 5



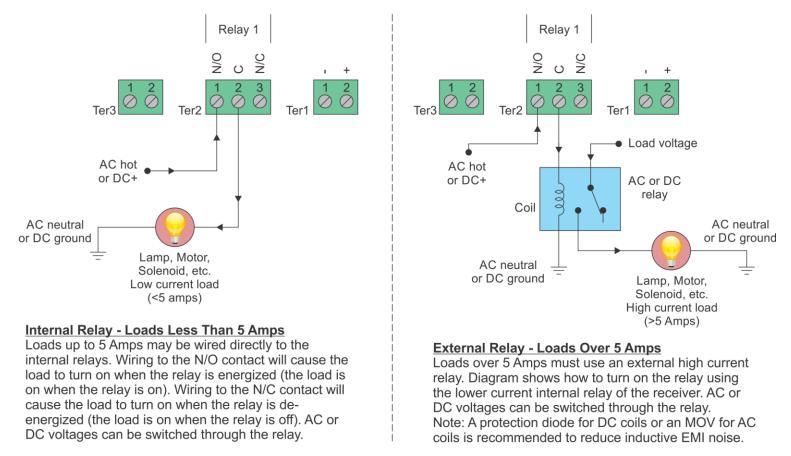
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INPUT/OUTPUT WIRING 1-Input Transmitter / 1-Relay Receiver

Dry Contact Input Wiring - Standard



Relay Output Wiring - Normally Open Application with Externally Supplied Voltage



Wiring configurations shown here are examples. The wiring for your application may differ. Call BWI Eagle for assistance or consult an electrician.