BWI EAGLE

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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR PLUS
2.4 GHz RF Transmitter
MODEL 36-10100-120I-DC

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

DESCRIPTION

The AIR-EAGLE SR PLUS TX IS an R.F. transmitter capable of sending a single 120VAC input command to an Air-Eagle SR Receiver located up to 600 feet away. Any number of transmitters and receivers can be combined to create a medium range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations. Eight user-selectable frequencies 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

APPLICATIONS

Doors, gates, barriers, tail gates, electrically controlled hydraulic valves, propane shut off controls, winches, anchor lifts, lights, sprinkling systems, movie screens, curtains, news weather screens, alarm systems, skeet throwers, saw mill applications, grain or aggregate chutes, conveyor belts, boat lifts, and more.

INSTALLATION

DISCONNECT DC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR TRANSMITTER in a convenient location.
2. Install wiring to contact input terminal strip
3. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
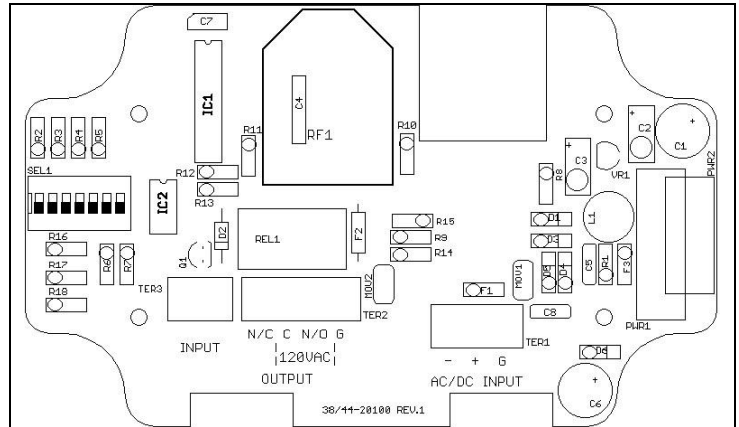4. Connect supplied power input cable to your external power source.

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
REL1	Not used on this model
SEL1	Seven dip switches for selecting operating frequency

TERMINAL STRIP WIRING

TER 3 DC INPUT		TER 2 RELAY OUTPUT		TER 1 AC/DC POWER INPUT	
1	120VAC - (Neutral)	1	Not Used	1	(-) 9-36VDC
2	120VAC - (Hot)	2	Not Used	2	(+) 9-36VDC
		3	Not Used	3	Not Used

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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
2) Remove top cover.
3) Select desired channel code and/or frequency using table below.
4) Reattach cover and apply power.
5) Programming is now complete.

CHANNEL SELECTION SET-UP

	Channel Code To Be Transmitted	SW1	SW2	SW3	SW4
SEL1 (SW1-4)	1 (default)	OPEN	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN	OPEN
	3	OPEN	CLOSED	OPEN	OPEN
	4	CLOSED	CLOSED	OPEN	OPEN
	5	OPEN	OPEN	CLOSED	OPEN
	6	CLOSED	OPEN	CLOSED	OPEN
	7	OPEN	CLOSED	CLOSED	OPEN
	8	CLOSED	CLOSED	CLOSED	OPEN
	9	OPEN	OPEN	OPEN	CLOSED
	10	CLOSED	OPEN	OPEN	CLOSED
	11	OPEN	CLOSED	OPEN	CLOSED
	12	CLOSED	CLOSED	OPEN	CLOSED
	13	OPEN	OPEN	CLOSED	CLOSED
	14	CLOSED	OPEN	CLOSED	CLOSED
	15	OPEN	CLOSED	CLOSED	CLOSED
	16	CLOSED	CLOSED	CLOSED	CLOSED

FREQUENCY SET-UP

	Network Frequency	SW5	SW6	SW7
SEL1 (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
	8	CLOSED	CLOSED	CLOSED

DOCUMENT DATE: 07/21/2021 / PRODUCT REV. 3

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SPECIFICATIONS

DC Input	9 – 36 VDC @ 10 Watts
Transmit Data	120VAC Input
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

Transmitter Frequencies	8 Independent Network Frequencies
Antenna Connection	TNC Female Connector
Operating Temperature	-40º F to +185º F
Enclosure	Polycarbonate NEMA 4, 12, 13 – IP66
Weight	Approx 2 lbs.

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 control 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