



238 Pillow Street
Butler, PA 16001
724-283-4681
724-283-5939 (fax)
www.bwieagle.com

PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR 2.4 GHz RF Transmitter MODEL 38-1400-120VAC – Rev.3

DESCRIPTION

The AIR-EAGLE SR, MODEL 38-1400-120VAC is an R.F. transmitter capable of sending up to four dry contact input commands to the Air-Eagle SR Receiver, model 38-2000 or 38-8000. The TX and RX combine to create a short range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations of up to 300 feet away. This unit is user-programmable for up to 128 digital addresses and eight network frequencies to allow multiple transmitters and receivers to operate simultaneously in the same area without interference.

INSTALLATION

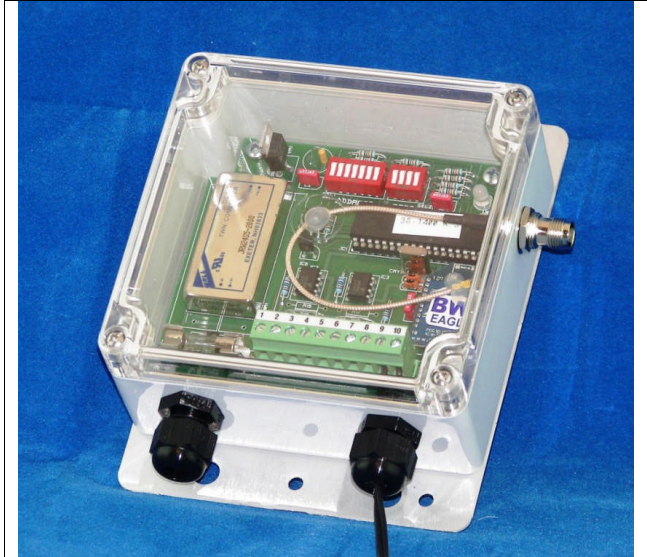
1. Mount the AIR-EAGLE SR TRANSMITTER in a convenient location.
2. Install wiring to contact input terminal strip.
3. Connect AC power and control to the proper terminals in your control circuit.

DIGITAL ADDRESS & FREQUENCY SET-UP

This transmitter is factory programmed to Frequency #1 and Digital Address "0". These settings can be changed by the user in any combination **but must match the receiver that is set up to communicate with this transmitter.** **If using this transmitter with a model 38-2000 4-relay receiver, the digital address must be kept at the default of Digital Address "0".**

- 1) Remove top cover.
 - 2) Select desired address and/or network frequency
 - 3) Move SW4 on SEL2 to the "CLOSED" position. The TX LED will illuminate (no data is being transmitted during this programming)
 - 4) Once LED is illuminated, move SW4 on SEL2 back to the "OPEN" position. The TX LED will extinguish.
 - 5) Programming is now complete. Replace top cover.
- Note – Selected address and frequency settings will be maintained, in the internal flash memory, even if power is removed from unit. The above procedure needs to be performed only if *changing* digital address and/or network frequency)

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)	Normal Operation		Programming	
	OPEN		CLOSED	

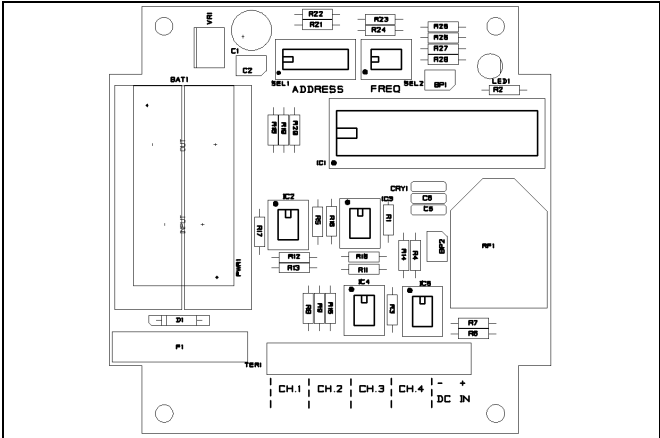


Dimensions (with mounting plate) 6.3" L x 4.8" W x 2.3" H

TERMINAL STRIP WIRING

1	Ch1 Input (+)	5	Ch3 Input (+)	9	(-) 12VDC INPUT*
2	Ch1 Input (C)	6	Ch3 Input (C)	10	(+) 12VDC INPUT*
3	Ch2 Input (+)	7	Ch4 Input (+)	* From supplied AC wall adapter	
4	Ch2 Input (C)	8	Ch4 Input (C)		

CONTROLS & INDICATORS



TX LED	Illuminates continuously while any button is depressed and unit is transmitting.
Dry Contact Inputs	Transmits individual RF codes to the receiver

AIR-EAGLE® SR

2.4 GHz RF Transmitter

MODEL 38-1400-120VAC – Rev.3

APPROVALS

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

SPECIFICATIONS

DC Input	9 - 18 VDC @ 10 Watts from AC adapter
Enclosure	ABS Plastic NEMA 3, 3R, 4, 12 + 13
Transmit Frequency	2.4GHz Spread Spectrum
Transmitter Coding	128 Digital Addresses (Available only when communicating with model 38-8000)
Transmitter Channels	8 Independent Network Frequencies
Antenna Connection	Internal – No external antenna needed
RF Output Power	1 mW
Transmit Range	Approximately 300 Feet
Operating Temperature	-40° F to +185° F

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	38-1402-120VAC
Standard Antenna (Included):	
2.4GHz TNC Portable Antenna (For distances up to 300 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 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.

DOCUMENT DATE: 17-Jul-07



238 Pillow Street
Butler, PA 16001
(724) 283-4681
Fax (724) 283-5939
www.bwieagle.com