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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® XLT 900 MHz RF Receiver MODEL 441AN-5000-4-200-120VAC

### DESCRIPTION

The AIR-EAGLE XLT, MODEL 441AN-5000-4-20120VAC is an RF receiver capable of receiving two 4-20mA or 0-5VDC input signals from a remote transmitter(s). Two 4-20mA outputs are provided to relay the information received. This unit can receive signals from up to 2500 feet away and is user-programmable for up to eight network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

### INSTALLATION

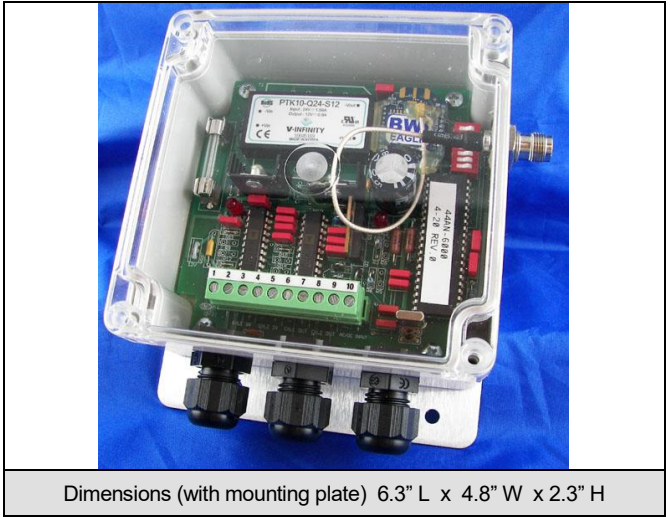
1. Mount the AIR-EAGLE XLT RECEIVER in a convenient location
2. Install wiring to output terminal strip.
3. Install antenna to TNC connector on side of unit.
4. Plug supplied AC wall plug adapter into 110VAC outlet.

### OPTIONS & FREQUENCY SET-UP

This receiver is factory set to operate on frequency #1. If you wish to change the default setting, follow the instructions using the table below:

- 1) Remove power from unit and remote top cover/
- 2) Select desired options and frequency using table below.
- 3) Reattach cover and apply power. Programming is now complete.

OPTIONS				
SEL1 SWITCH NUMBER	OPEN	CLOSED		
SW1	Uses Safety Timer (default)	No Safety Timer		
	<i>Select whether output holds or clears when signal lost</i>			
SW2	4mA Idle (default)	20mA Idle		
	<i>Select whether safety timer clears the output low or high</i>			
SW3 & 4	Reserved for future use			
FREQUENCY SET-UP				
SEL1 (SW5-7)	Network Frequency	SW5	SW6	SW7
	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	

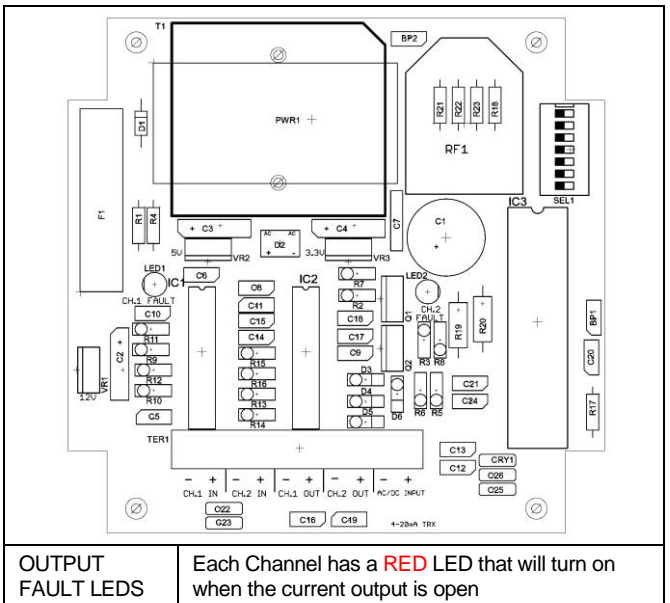


Dimensions (with mounting plate) 6.3" L x 4.8" W x 2.3" H

### TERMINAL STRIP WIRING

1	2	3	4	5	6	7	8	9	10
Not Used	Not Used	Not Used	Not Used	Output 1 4-20mA (-)	Output 1 4-20mA(+)	Output 2 4-20mA(-)	Output 2 4-20mA(+)	(-) 12VDC input from included AC wall adapter	(+) 12VDC input from included AC wall adapter

### CONTROLS & INDICATORS



**OUTPUT FAULT LEDS** Each Channel has a RED LED that will turn on when the current output is open

# AIR-EAGLE® XLT

900 MHz RF Receiver

**MODEL 441AN-5000-4-200-120VAC**

## APPROVALS

United States (FCC)	MCQ-XB900HP
Canada (IC)	1846A-XB900HP
Australia	RCM
Brazil	ANATEL 3727-12-1209

## SPECIFICATIONS

Inputs	Not used on this model
Outputs	Two 4-20mA
Safety Timer	15 seconds
Update Time	4 samples / second
AC Input	100-240 VAC, 16 W, 50/60 Hz from supplied wall adapter
Enclosure	Polycarbonate NEMA 4 (IP66)
Frequency	900MHz Spread Spectrum 8 Independent Networks
Reception Range	Up to 2500 Feet w/Standard Antenna
<small>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</small>	
Operating Temperature	-40° F to +185° F

## ACCESSORIES

Standard Antenna (Included):	
900MHz TNC "Rubber Duck" Antenna	49-1103
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	
900MHz Thru-Hole Mount Mobile Antenna	49-2101
900MHz Magnet Mount Mobile Antenna	49-2102
900MHz Omni Directional Base Antenna	49-3101
900MHz Yagi Directional Base Antenna	49-3102
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

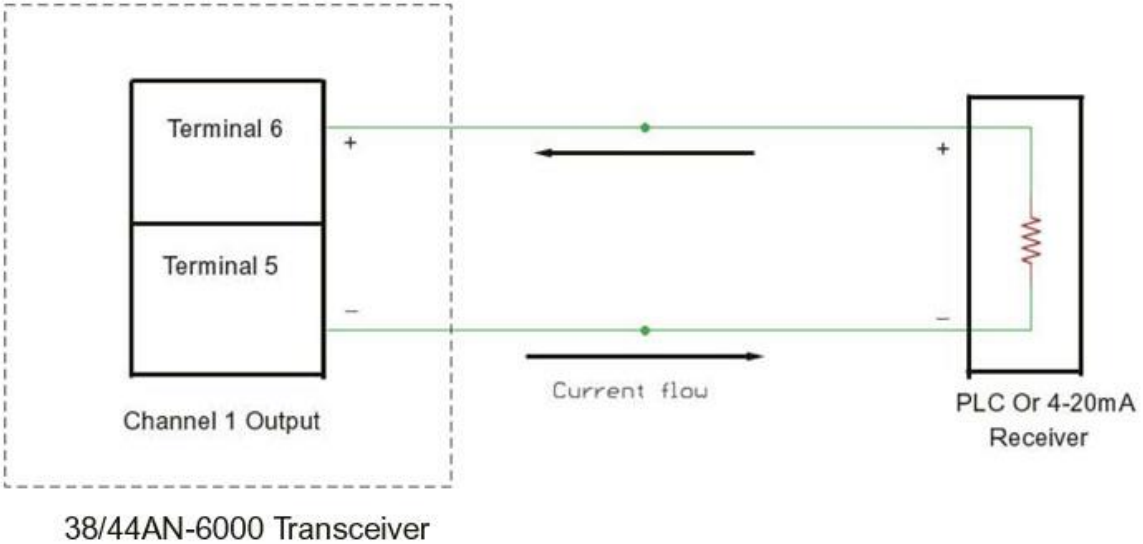
BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage 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 of 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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441AN-5000-4-20-120VAC  
**4-20mA Installation**



The above diagram shows the channel 1 output hooked to a 4-20mA receiver or PLC. The input resistance of the receiver can be up to 500 ohms. Anything higher and the current will be limited to below 20 mA since the maximum output voltage of the channel outputs is 10 volts.