BWI EAGLE

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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT
Analog & Digital 900 MHz RF Receiver
MODEL 441AN/D-5000-120VAC

DESCRIPTION

The AIR-EAGLE XLT, MODEL 441AN/D-5000-120VAC IS an RF receiver capable of receiving one analog or voltage input signal and one dry-contact input signal from an analog / digital output transmitter. The transmitter and receiver combine to create a long range radio frequency system that monitors and operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations of up to 2500 feet away. (Or longer with optional antennas) This unit 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 terminal strip.
3. Install antenna onto TNC connector on side of unit.
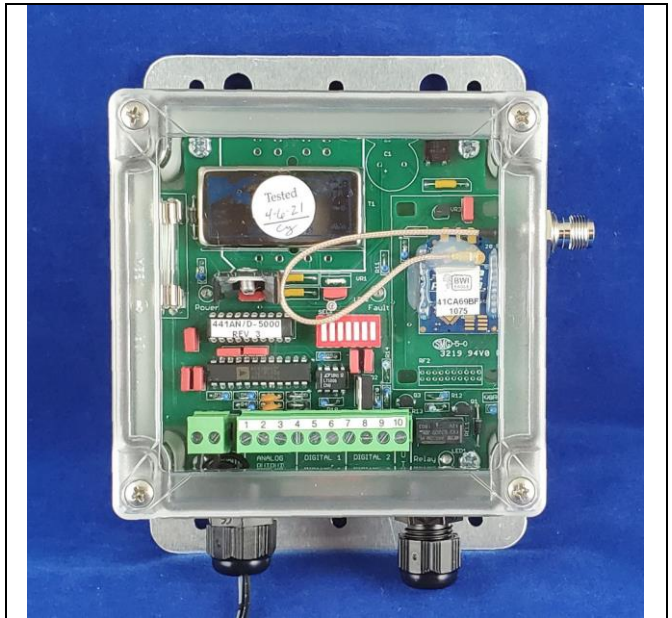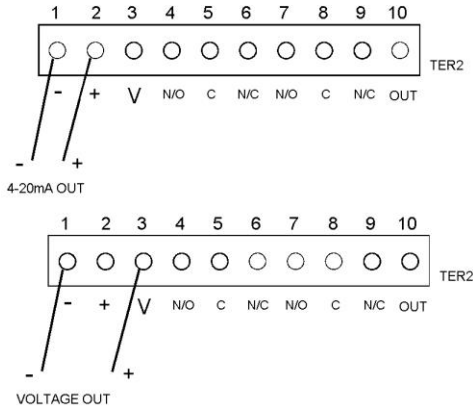4. Plug supplied AC wall plug adapter into 110VAC outlet.

TERMINAL STRIP WIRING

TER1 (LEFT BLOCK)	
1	(-) 12VDC *
2	(+) 12VDC*

*From supplied 120VAC wall plug adapter

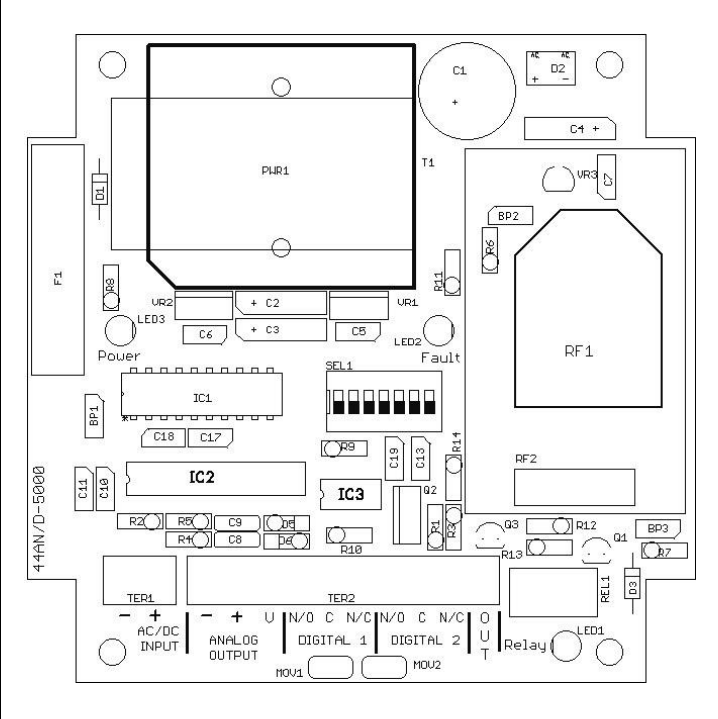| TER2 (RIGHT BLOCK)	
1	Analog Output (-)
2	(+) Current Output
3	(+) Voltage Output
4	N/O Relay
5	C Relay
6	N/C Relay
7	N/O Relay – 2nd Pole
8	C Relay – 2nd Pole
9	N/C Relay – 2nd Pole
10	Open Drain Output (not used)

Note #1 – **Output type MUST be selected** for the terminal strip wiring to take effect! (See OUTPUT OPTIONS & FREQUENCY SET-UP)

4-20mA OUT

VOLTAGE OUT

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

CONTROLS & INDICATORS

POWER LED	Illuminates GREEN when powered on
OUTPUT FAULT LED	Used in 4-20mA mode only – Illuminates RED when current loop open

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OUTPUT OPTIONS & FREQUENCY SET-UP

This receiver is factory set with an analog output of 0-24mA selected and to operate on frequency #1. If you wish to change the default settings, follow the instructions using the table below:

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

OUTPUT CONFIGURATION

	OUTPUT TYPE	SW1	SW2
SEL1 SW1 & 2	0-24mA Output (default) TER2 Pins 1 and 2	OPEN	OPEN
	0-20mA Output TER2 Pins 1 and 2	CLOSED	OPEN
	4-20mA Output TER2 Pins 1 and 2	OPEN	CLOSED
	Voltage Output TER2 Pins 1 and 3	CLOSED	CLOSED

SEL1 SW3 & 4	VOLTAGE TYPE / LINK LOSS	
	OPEN	CLOSED
SW3	0-10V Output (default)	0-5VDC Output
SW4	Link Loss 4mA (default)	Link Loss 20mA

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

SPECIFICATIONS

Outputs	One 4-20mA or voltage output (0-5 or 0-10 VDC)
	One DPDT 2amps @120VAC or 30VDC relay output
Fuse Protected	2 amp slow-blow
Safety Timer	15 seconds
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
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	
Operating Temperature	-40º F to +185º F

APPROVALS

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

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

DOCUMENT DATE: 07/23/2021 / PRODUCT REV. 3

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