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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT

Analog & Digital 900 MHz RF Receiver

MODEL 441AN/DP-5-0002-120VAC

DESCRIPTION

The AIR-EAGLE XLT, MODEL 441AN/DP-5-0002-120VAC is an RF receiver equipped with one analog output and one relay output. It is designed to work with the handheld transmitter model 441P-HH-4-002 for both "On/Off" and "Speed" control. This unit is capable of receiving commands from up to 2500 feet away. Eight network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

INSTALLATION

1. Mount the AIR-EAGLE SR 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-DC wall plug adapter into 120VAC outlet.

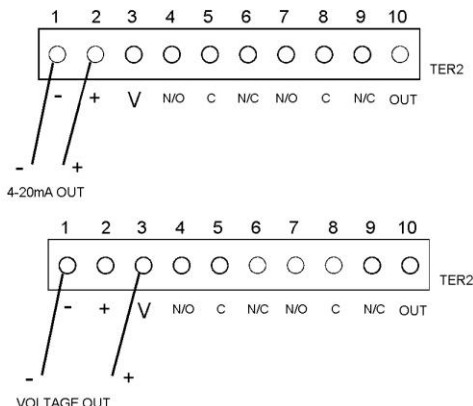
TERMINAL STRIP WIRING

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

*From supplied 120VAC wall plug adapter

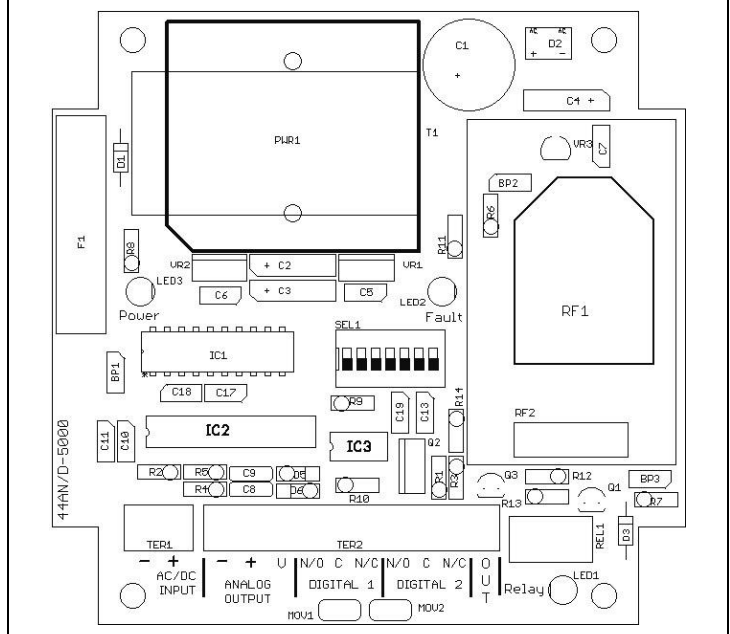
TER2 (RIGHT BLOCK)	
1	Analog Output (-)
2	(+) Current Output
3	(+) Voltage Output
4	N/O Relay
5	C Relay
6	N/C Relay
7	N/O Relay – 2 nd Pole
8	C Relay – 2 nd Pole
9	N/C Relay – 2 nd Pole
10	Open Drain Output (not used)

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



CONTROLS & INDICATORS

POWER LED	Illuminates GREEN when powered on
OUTPUT FAULT LED	Used in 4-20mA mode only – Illuminates RED when current loop open
ANALOG OUTPUT	Output increased by button 2 on the handheld transmitter and decreased by button 4
RELAY OUTPUT	Energized by button 1 on the handheld transmitter and de-energized by button 3



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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 then remove top cover.
- 2) Select desired output option and/or frequency using table below.
- 3) Reattach cover and apply power. Programming is now complete.

OUTPUT CONFIGURATION

SEL1 SW1 & 2	OUTPUT TYPE	SW1	SW2
	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

VOLTAGE TYPE

SEL1 SW3	OPEN	CLOSED
SW3	0-10V Output (default)	0-5VDC Output

Note – SW3 is only to be used if running in "voltage mode"

OUTPUT OPERATION

SEL1 SW4	OPEN	CLOSED
SW4	Normal operation	Output resets to lowest setting at power up and when relay turned off

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

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
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	-40° F to +185° 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

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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