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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT 900 MHz RF Transceiver MODEL 441AN-6000-4-200-DC

DESCRIPTION

The AIR-EAGLE XLT, MODEL 441AN-6000-4-20-DC is an RF transceiver capable of transmitting two 4-20mA or 0-5VDC inputs and receiving two 4-20mA analog signals. Two transceivers are used together to create a long range radio frequency system that monitors 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 seven network frequencies to allow multiple systems to operate simultaneously in the same area without interference.

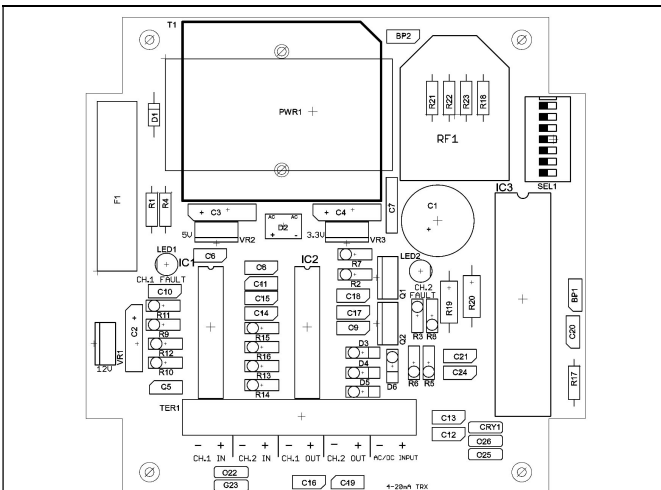
INSTALLATION

1. Mount the AIR-EAGLE XLT TRANSCEIVER in a convenient location
2. Install wiring to input/output terminal strip.
3. Designate a "Primary" unit and set SEL1 Switch #3 accordingly.
4. Install antenna onto TNC connector on side of unit
5. Connect DC power to the proper terminals in your control circuit.

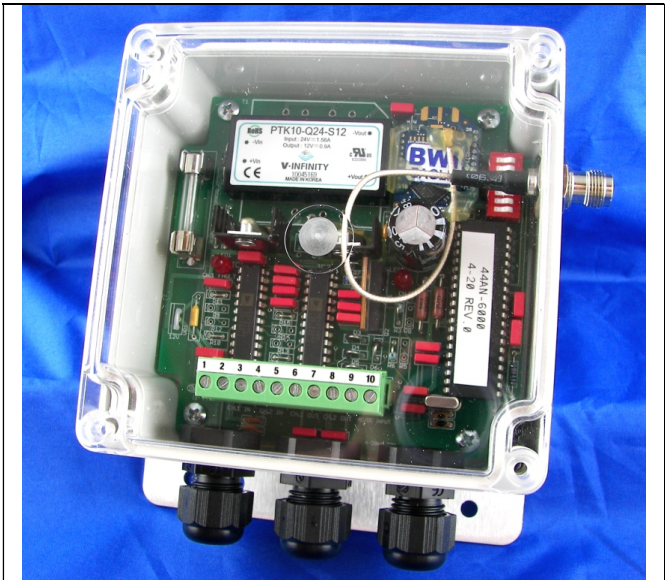
TERMINAL STRIP WIRING

1	2	3	4	5	6	7	8	9	10
Input 1 4-20mA (-)	Input 1 4-20mA (+)	Input 2 4-20mA (-)	Input 2 4-20mA (+)	Output 1 4-20mA (-)	Output 1 4-20mA(+)	Output 2 4-20mA(-)	Output 2 4-20mA(+)	(-) 9-36VDC input	(+) 9-36VDC input

CONTROLS & INDICATORS



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



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

INPUT OPTIONS & FREQUENCY SET-UP

This transceiver is factory set for 4-20mA input, 4mA link loss 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 input options and/or frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

INPUT CONFIGURATION		
SEL1 SWITCH NUMBER	OPEN	CLOSED
SW1	4-20mA Input (default)	0-5VDC Input
SW2	Link Loss 4mA (default)	Link Loss 20mA
SW3	Secondary (default)	Primary

Note – A dedicated Primary unit MUST be selected.

SW4	Reserved for future use
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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

AIR-EAGLE® XLT

900 MHz RF Transceiver

MODEL 441AN-6000-4-200-DC

APPROVALS

United States (FCC)	MCQ-XBPS3B
Canada (IC)	1846A-XBPS3B

SPECIFICATIONS

Inputs	Two 4-20mA (or) 0-5VDC
Outputs	Two 4-20mA
Safety Timer	15 seconds
Update Time	4 samples / second
DC Input	9 – 36 VDC @ 10 Watts Fuse Protected – 1A Slo-Blo
Enclosure	Polycarbonate NEMA 4 (IP66)
Frequency	900MHz Spread Spectrum 7 Independent Networks
RF Output Power	250 mW
Transmit Range	Approximately 2500 Feet w/standard antenna
Operating Temperature	-40° F to +185° F

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	441AN-6002-4-200
Standard Antenna (Included):	
900MHz Portable Antenna (For distances up to 2500 feet*)	49-1103
Optional Antennas and Accessories:	
900MHz Omni Directional Antenna (For distances up to 2 miles*)	49-3101
900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 4 miles*)	49-3102
Flex Coax Cable w/Connectors	49-4000-XX (XX = # of Feet)
* = Line of Sight	

LIMITED WARRANTY STATEMENT

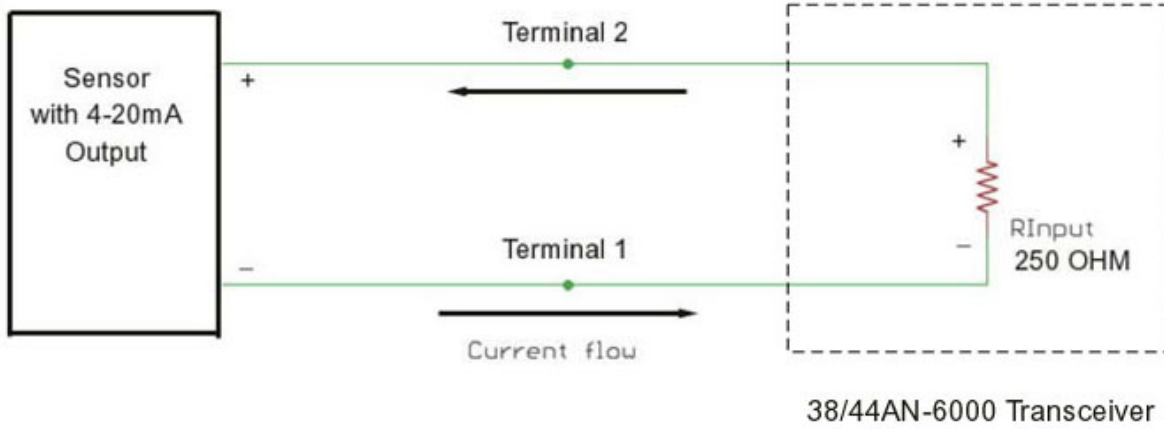
BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage 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: 03/01/2019 / PRODUCT REV. 2

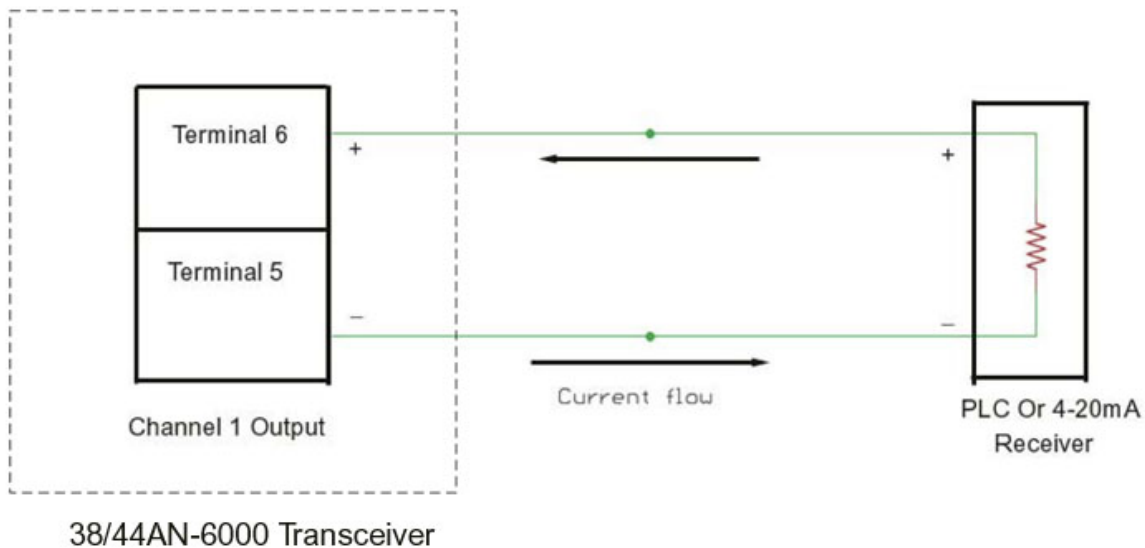


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4-20mA Installation



The above diagram shows a 4-20mA sensor hooked to channel 1 input. The 250 Ohm input resistor will drop a voltage of 1 Volt at 4mA and 5 Volts at 20mA. The sensor may be of any type and voltage that has a 4-20mA output. Even if the sensor runs on a voltage higher than 5 volts the current is still maintained between 4 and 20 milliamps so that the voltage drop on the resistor is always between 1 and 5 volts. Remaining voltage is dropped internally in the sensor. Loop powered sensors are not able to be used on this particular unit.



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.