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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR PLUS Analog & Digital 2.4 GHz RF Transmitter MODEL 36AN/D-1000-DC

DESCRIPTION

The AIR-EAGLE SR PLUS, MODEL 36AN/D-1000-DC is an RF transmitter capable of transmitting one analog or voltage input and one dry-contact input signal to an analog / dry-contact relay output receiver. The transmitter and receiver combine to create a medium range radio frequency system that monitors and operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations of up to 600 feet away. 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 SR PLUS TRANSMITTER in a convenient location
2. Install wiring to input terminal strip and select input type by setting dip switches 1 and 2 on SEL1 (see INPUT OPTIONS)
3. Install antenna onto TNC connector on side of unit.
4. Connect supplied power input cable to your external power source.

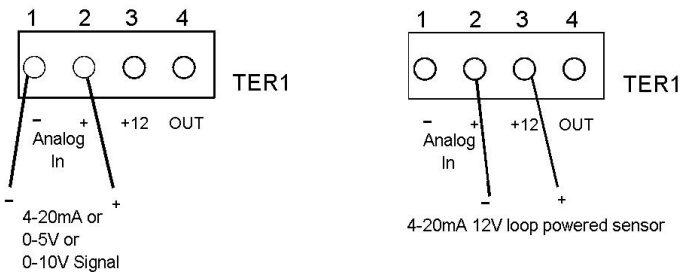
TERMINAL STRIP WIRING

TER2 (LEFT BLOCK)				TER1 (RIGHT BLOCK)			
1	2	3	4	1	2	3	4
Dry-Contact – Common	Dry-Contact – N/O	(-) 9-36VDC input	(+) 9-36VDC input	Analog In (-)	Analog In (+)	(+) 12VDC	Open Drain Output (not used)

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

Note #2 – When using in 4-20mA mode or voltage mode connect input to TER1, Pins 1 and 2 – be sure to observe polarity

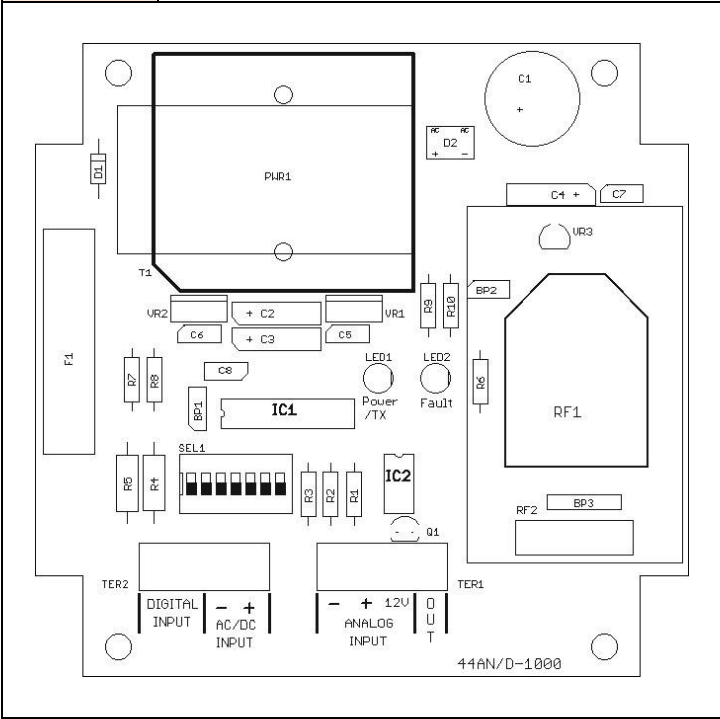
Note #3 – You can use a 12V loop powered 4-20mA sensor by connecting the (-) side to TER1, Pin 2 and (+) side to TER1, Pin 3. (use 12V powered sensor only – see wiring picture)



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

CONTROLS & INDICATORS

POWER/TX LED	Illuminates GREEN when powered on – Changes to RED when transmitting digital data
INPUT FAULT LED	Used in 4-20mA mode only – Illuminates RED when current loop open



AIR-EAGLE® SR PLUS

Analog & Digital 2.4 GHz RF Transmitter

MODEL 36AN/D-1000-DC

INPUT OPTIONS & FREQUENCY SET-UP

This transmitter is factory set with no input type 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 input option and/or frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

INPUT CONFIGURATION				
INPUT TYPE		SW1	SW2	
SEL1 SW1 & 2	No Input Selected (default)	OPEN	OPEN	
	4-20mA Input	CLOSED	OPEN	
	0-5VDC Input	CLOSED	CLOSED	
	0-10VDC Input	OPEN	CLOSED	
SW3 & 4	Reserved for future use			
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

Inputs	One 4-20mA or voltage input (0-5 or 0-10VDC) One dry-contact input
Fuse Protected	2 amp slow-blow
Update Time	4 samples / second
DC Input	9 – 36 VDC @ 10 Watts Fuse Protected – 1A Slo-Blo
Enclosure	Polycarbonate NEMA 4 (IP66)
Frequency	2.4 GHz Spread Spectrum 8 Independent Networks
RF Output Power	60 mW
Transmit Range	Up to 600 Feet
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-XBEE3
Canada (IC)	1846A-XBEE3
Europe (CE)	ETSI
Australia	RCM
Brazil	ANATEL 06329-18- 01209

ACCESSORIES

Standard Antenna (Included):	
2.4GHz TNC "Rubber Duck" Antenna	49-1201
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	
2.4GHz Thru-Hole Mount Omni Directional Antenna	49-2201
2.4GHz Magnet Mount Omni Directional Antenna	49-2202
2.4GHz Omni Directional Base Antenna	49-3201
2.4GHz Yagi Directional Base Antenna	49-3202
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

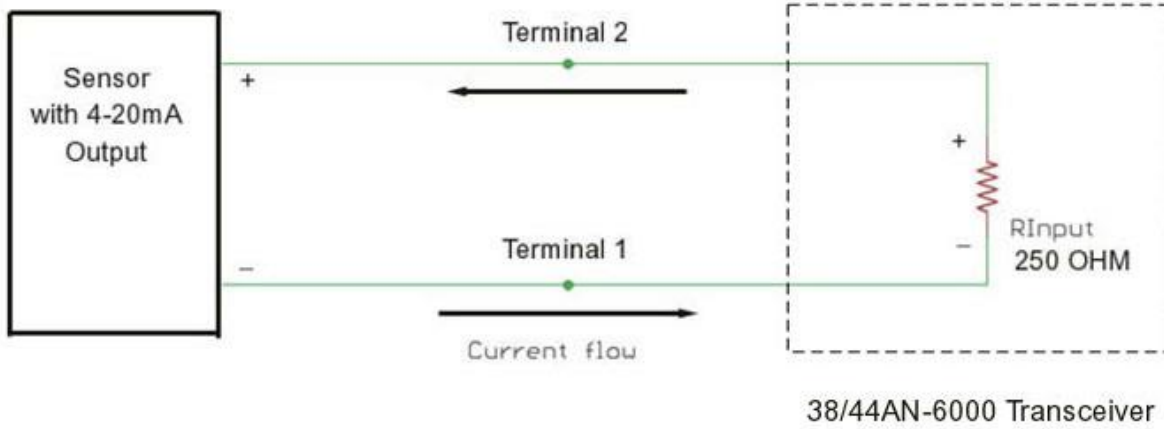
BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage 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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36AN-1000-120VAC 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.