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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR PLUS 2.4 GHz RF Transceiver MODEL 36-6000-120VAC

DESCRIPTION

The AIR-EAGLE SR PLUS RF TRANSCEIVER IS a dual I/O unit designed to transmit and receive unique signals from an identical unit located up to 1200 feet away. This model comes equipped with two contact inputs and two high current SPDT relay outputs. This allows the user to not only transmit information out, but receive a confirming signal back that the operation was performed. The Air-Eagle SR PLUS TRX is user-programmable for up to eight network frequencies to allow multiple transceivers to operate simultaneously in the same area and utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments. A terminal strip has been provided for interfacing with external dry contact inputs as well as dry contact relay outputs. This unit can operate remote machinery such as pumps, gates, chutes etc.

APPROVALS

| | |
|---------------------|---------------|
| United States (FCC) | OUR-XBEEPRO |
| Canada (IC) | 4214A-XBEEPRO |
| Europe (CE) | ETSI |

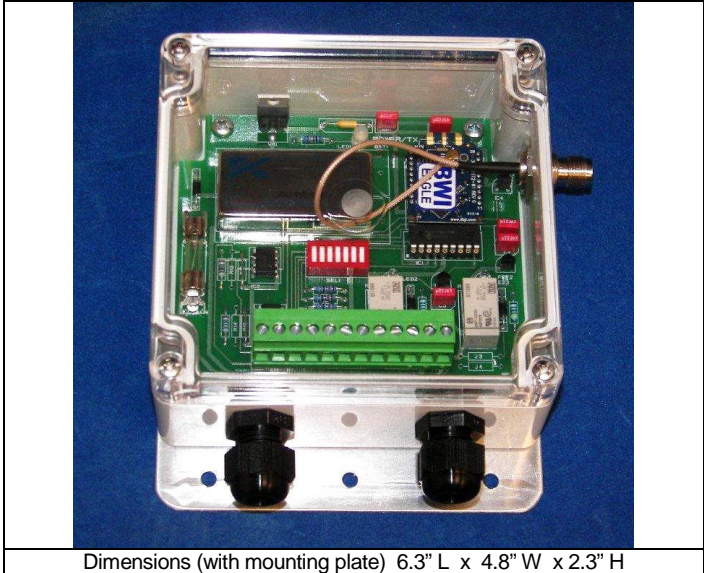
INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR TRANSCEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect AC power and control to the proper terminals in your control circuit.

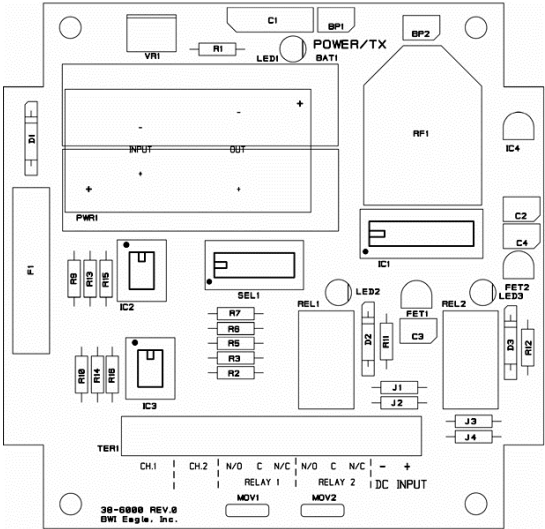
TERMINAL STRIP WIRING

| | | | | | |
|---|--------------|----|--------------|----|---|
| 1 | C Input #1 | 5 | N/O Relay #1 | 11 | (-) 12VDC INPUT (from included wall adapter) |
| 2 | N/O Input #1 | 6 | C Relay #1 | | |
| 3 | C Input #2 | 7 | N/C Relay #1 | 12 | (+) 12VDC INPUT (from included wall adapter) |
| 4 | N/O Input #2 | 8 | N/O Relay #2 | | |
| | | 9 | C Relay #2 | | |
| | | 10 | N/C Relay #2 | | |



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

CONTROLS AND INDICATORS



| | |
|--------------------|--|
| LED1 | Power / TX LED |
| LED2 | Illuminates when relay #1 is energized |
| LED3 | Illuminates when relay #2 is energized |
| Dry Contact Inputs | Transmits individual RF codes to the receiver |
| RF1 | RF module that receives data from the remote transmitter |
| REL1 and REL2 | Two SPDT output control relays |
| SEL1 | Seven dip switches for selecting configuration options and operating frequency |

AIR-EAGLE® SR PLUS

2.4 GHz RF Transceiver

MODEL 36-6000-120VAC

FREQUENCY SET-UP

The unit is shipped from the factory with SEL1 switches in the open positions. The relays will operate as maintained momentary and unit is receiving commands on frequency one. If you wish to change the default frequency setting, follow the instructions on the table below.

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

OTHER

SEL1
(SW1-3)

Reserved for future use

FREQUENCY SET-UP

| SEL1 (SW4-6) | Network Address | SW4 | SW5 | SW6 |
|-----------------|-----------------|--------|--------|--------|
| | 1 | 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 |

OTHER

SEL1
(SW7)

Reserved for future use

SPECIFICATIONS

| | |
|-----------------------|--|
| AC Input | 120 VAC, 16 W, 50/60 Hz, from included AC wall adapter |
| Relay Contacts | SPDT 5 amp @ 120VAC or 50VDC |
| Fuse Protected | 1 amp |
| Transceiver Frequency | 2.4 GHz Spread Spectrum |
| RF Output Power | 60 mW |
| Transceiver Range | Approximately 1200 feet |
| Transceiver Channels | 8 Independent Network Frequencies |
| Antenna Connection | TNC Bulkhead |
| Operating Temperature | -40° F to +185° F |
| Enclosure | ABS Plastic, NEMA 3, 3R, 4, 4X, 12, 13 |
| Weight | Approx 2 lbs. |

REPLACEMENT PARTS & ACCESSORIES

| | |
|---|--------------------------------|
| PC Board (Main) | 36-6002-120VAC |
| Standard Antenna (Included): | |
| 2.4GHz TNC Portable Antenna | 49-1201 |
| Optional Antennas and Accessories – Used to increase range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations | |
| 2.4GHz Thru-Hole Mount Mobile Antenna | 49-2201 |
| 2.4GHz Magnetic Mount Mobile Antenna | 49-2202 |
| 2.4GHz Omni Directional Antenna | 49-3201 |
| 2.4GHz 13dB Yagi Antenna | 49-3202 |
| Flex Coax Cable w/Connectors – Connects external antenna(s) to base unit(s). | 49-4000-XX (XX = # of Feet) |
| Inline Lightning Arrestor | 49-5002 |
| * = 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 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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