**AIR-EAGLE® SR PLUS**

Analog & Digital 2.4 GHz RF Transmitter

**MODEL 36AN/D-1000-120VAC**

**DESCRIPTION**

The AIR-EAGLE SR PLUS, MODEL 36AN/D-1000-120VAC 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. Plug supplied AC wall plug adapter into 110VAC outlet.

**TERMINAL STRIP WIRING**

<table>
<thead>
<tr>
<th>TER2 (LEFT BLOCK)</th>
<th>TER1 (RIGHT BLOCK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Dry Contact – Common</td>
<td>Dry Contact – N.O.</td>
</tr>
<tr>
<td>(+) 12V input from included AC wall adapter</td>
<td>(+) 12V input from included AC wall adapter</td>
</tr>
</tbody>
</table>

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)

**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

**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

**DIMENSIONS**

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

(Similar Model Pictured)

**TERMINAL STRIP WIRING**

<table>
<thead>
<tr>
<th>TER1</th>
<th>TER2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Analog In (-)</td>
<td>Analog In (+)</td>
</tr>
<tr>
<td>(+) 12VDC</td>
<td>Open Drain Output (not used)</td>
</tr>
<tr>
<td>(+) 12VDC</td>
<td>Open Drain Output (not used)</td>
</tr>
</tbody>
</table>

**DIP SWITCH SETTING**

<table>
<thead>
<tr>
<th>switch</th>
<th>setting</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEL1</td>
<td>1-2</td>
<td>input type</td>
</tr>
</tbody>
</table>

**INPUT OPTIONS**

- Analog In
- Voltage Input
- 4-20mA Input
- 0-5V Input
- 0-10V Input
**AIR-EAGLE® SR PLUS**  
Analog & Digital 2.4 GHz RF Transmitter  
**MODEL 36AN/D-1000-120VAC**

**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.

<table>
<thead>
<tr>
<th>INPUT CONFIGURATION</th>
<th>SW1</th>
<th>SW2</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Input Selected (default)</td>
<td>OPEN</td>
<td>OPEN</td>
</tr>
<tr>
<td>4-20mA Input</td>
<td>CLOSED</td>
<td>OPEN</td>
</tr>
<tr>
<td>0-5VDC Input</td>
<td>CLOSED</td>
<td>OPEN</td>
</tr>
<tr>
<td>0-10VDC Input</td>
<td>OPEN</td>
<td>CLOSED</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FREQUENCY SET-UP</th>
<th>SW5</th>
<th>SW6</th>
<th>SW7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (default)</td>
<td>OPEN</td>
<td>OPEN</td>
<td>OPEN</td>
</tr>
<tr>
<td>2</td>
<td>CLOSED</td>
<td>OPEN</td>
<td>OPEN</td>
</tr>
<tr>
<td>3</td>
<td>OPEN</td>
<td>CLOSED</td>
<td>OPEN</td>
</tr>
<tr>
<td>4</td>
<td>CLOSED</td>
<td>CLOSED</td>
<td>OPEN</td>
</tr>
<tr>
<td>5</td>
<td>OPEN</td>
<td>OPEN</td>
<td>CLOSED</td>
</tr>
<tr>
<td>6</td>
<td>CLOSED</td>
<td>OPEN</td>
<td>CLOSED</td>
</tr>
<tr>
<td>7</td>
<td>CLOSED</td>
<td>OPEN</td>
<td>CLOSED</td>
</tr>
<tr>
<td>8</td>
<td>CLOSED</td>
<td>CLOSED</td>
<td>CLOSED</td>
</tr>
</tbody>
</table>

**APPROVALS**

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

**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  
- **AC Input**: 100-240 VAC, 16 W, 50/60 Hz from supplied wall adapter  
- **Enclosure**: Polycarbonate NEMA 4 (IP66)  
- **Frequency**: 2.4 GHz Spread Spectrum  
  8 Independent Networks  
- **RF Output Power**: 60 mW  
- **Transmit Range**: Approximately 600 Feet  
- **Operating Temperature**: -40° F to +185° F

**REPLACEMENT PARTS & ACCESSORIES**

<table>
<thead>
<tr>
<th>PC Board (Main)</th>
<th>36AN/D-1002-120VAC</th>
</tr>
</thead>
</table>
| Standard Antenna (Included):  
  2.4GHz TNC Portable Antenna (For distances up to 600 feet) | 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)  
* = 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.