



238 Pillow Street
 Butler, PA 16001
 724-283-4681
 724-283-5939 (fax)
 www.bwieagle.com

PRODUCT INFORMATION BULLETIN

AIR-EAGLE[®] FM2 900MHz RF Receiver DUAL RELAY OUTPUT **MODEL 43-5000N4W-120VAC**

DESCRIPTION

The AIR-EAGLE FM2 RF RECEIVER is a dual relay output unit designed to receive unique signals from an AIR-EAGLE FM2 TRANSMITTER located up to 1200 feet away. Enclosed in a rugged NEMA 4 enclosure, this unit is well-suited to meet the environmental challenges of any industry. This unit can operate remote machinery such as pumps, gates, chutes, conveyors etc.



PC BOARD SET-UP INFORMATION

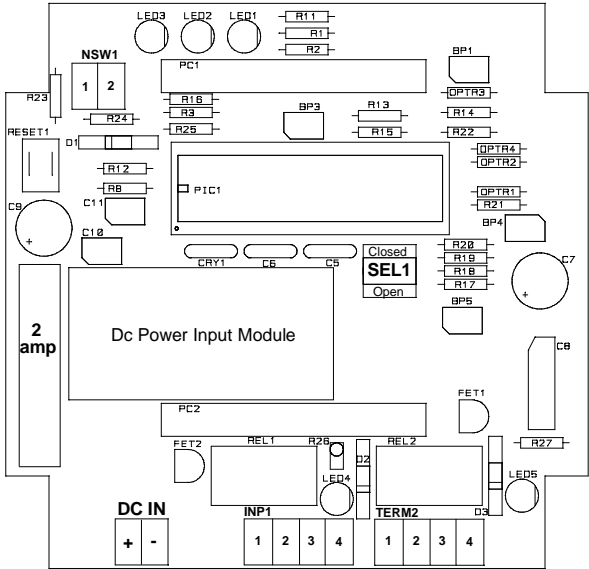
Make the following connections on the PC Board Terminal Strip:

| DC INPUT TERMINAL STRIP (DC IN) | |
|---------------------------------|---|
| Terminal 1 | Positive (+) 12VDC INPUT from internal 120VAC |
| Terminal 2 | Negative (-) 12VDC INPUT from internal 120VAC |

| INPUT 1 TERMINAL STRIP (INP1) | |
|-------------------------------|-----|
| Terminal 1 | N/A |
| Terminal 2 | N/A |
| Terminal 3 | N/A |
| Terminal 4 | N/A |

| I/O TERMINAL STRIP (TERM2) | |
|----------------------------|----------------|
| Terminal 1 | Relay 1 Common |
| Terminal 2 | Relay 1 N/O |
| Terminal 3 | Relay 2 Common |
| Terminal 4 | Relay 2 N/O |

| NETWORK SWITCH CONFIGURATION OPTIONS (SEL1) | | | |
|---|-----------------|--------|--------|
| SEL 1 (SW1 & 2): | Network Address | SW1 | SW2 |
| <i>USED TO SET NETWORK FREQUENCY</i> | #1 | OPEN | OPEN |
| | #2 | CLOSED | OPEN |
| | #3 | OPEN | CLOSED |
| | #4 | CLOSED | CLOSED |

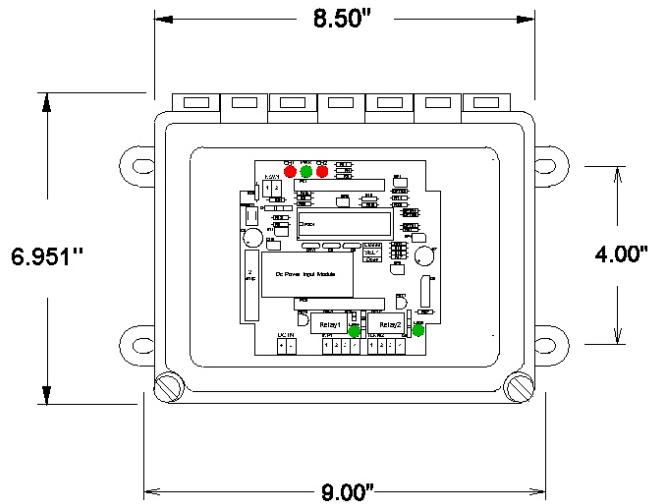


AIR-EAGLE® FM2

900MHz RF Receiver
DUAL RELAY OUTPUT

MODEL 43-5000N4W-120VAC

DIMENSIONS & INDICATORS



CH1 LED – Not used on this model.

POWER LED – Green LED illuminates continuously while power is applied to the transceiver.

CH2 LED – Not used on this model.

RELAY 1 LED - Green LED illuminates continuously while Relay #1 is energized.

RELAY 2 LED – Green LED illuminates continuously while Relay #2 is energized.

RELAY OPERATION

| 43-1000 Signals Received | 43-1300 Signals Received | Relay Function |
|--------------------------------|--------------------------------|---|
| Input 1 Closed | Button 1 | Relay 1 energizes, momentary |
| Input 2 Closed | Button 2 | Relay 2 energizes, momentary |
| N/A | Button 3 | Not used on this model |
| N/A | Button 4 | Not used on this model |
| N/A | Button 5 | Not used on this model |
| N/A | Button 6 | Not used on this model |
| N/A | Button 7 | Not used on this model |
| N/A | Button 8 | Not used on this model |
| N/A | Button 9 | Programming button only – see product information on 43-1300 |

SPECIFICATIONS

| | |
|--------------------|--|
| Power Supply | 120VAC from internal adapter |
| Fuse Protected | 2 amp |
| Relay Contacts | SPST N/O 5 amps @ 120VAC |
| Receiver Range | Up to 1200 feet with external antenna – (see accessories) |
| Receiver Frequency | 900MHz Spread Spectrum |
| RF Channels | Four independent network frequencies |
| Enclosure | Hinged fiberglass with window / NEMA 3, 3R, 4, 12, 13 |
| Operating Temp | -40° F - +185° F |

REPLACEMENT PARTS & ACCESSORIES

| | |
|--|--------------------------------|
| PC Board (Main) | 43-5002N4W |
| Standard Antenna (Included): | |
| 900MHz TNC Portable Antenna (For distances up to 600 feet*) | 49-1103 |
| Optional Antenna & Accessories: | |
| 900MHz Omni Directional Base Antenna (For distances up to 1200 feet*) | 49-3101 |
| Flex Coax Cable w/Connectors | 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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