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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® GOLD PLUS 900 MHz RF Receiver MODEL 48-5000

DESCRIPTION

The AIR-EAGLE GOLD PLUS RECEIVER is a radio frequency receiver designed for long-range communication in a variety of industrial applications. Integral high current relays can be directly interfaced with the customer's equipment. This unit is capable of receiving remote signals transmitted from greater than one mile. Our 900 MHz receiver has the capability of simultaneously networking with more than 15 transmitters in the direct vicinity. The auto-scan feature "locks" the unit onto a clear frequency without user intervention. Incorporating spread-spectrum technology, this model provides the utmost security and reliability. The full-duplex communication capability allows for a maintained fail-safe communications link while on board LEDs provide visual indication that communication is established and sustained.

INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE GOLD RF RECEIVER in a convenient location.
2. Install antenna. The unit has a TNC connector located on the right side on the enclosure. Attach the coax cable from the external FM antenna to the TNC connector.
3. Connect AC power and control to the proper terminals in your control circuit.

TERMINAL STRIP WIRING

1	N/O Relay #1	10	N/O Relay #4	19	N/O Relay #7
2	C Relay #1	11	C Relay #4	20	C Relay #7
3	N/C Relay #1	12	N/C Relay #4	21	N/C Relay #7
4	N/O Relay #2	13	N/O Relay #5	22	N/O Relay #8
5	C Relay #2	14	C Relay #5	23	C Relay #8
6	N/C Relay #2	15	N/C Relay #5	24	N/C Relay #8
7	N/O Relay #3	16	N/O Relay #6		
8	C Relay #3	17	C Relay #6		
9	N/C Relay #3	18	N/C Relay #6		

* Note - Relay #8 will be energized **only** while any transmitter(s) is "linked" to the receiver

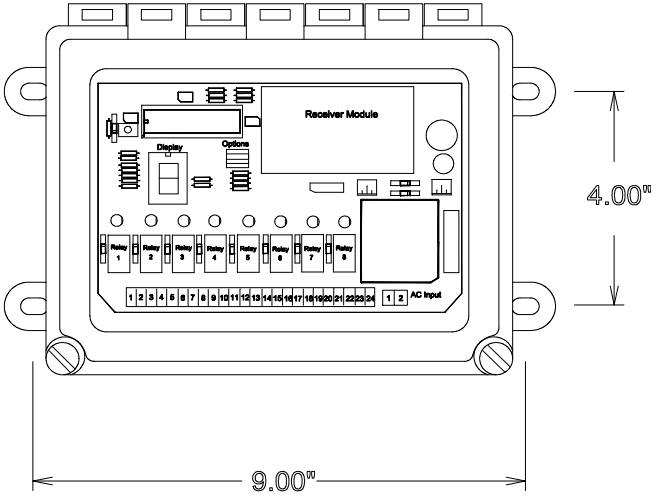
AC INPUT	
Terminal #1	120 VAC - (Hot)
Terminal #2	120 VAC - (Neutral)

New and Improved Performance!

The Air-Eagle Gold Plus provides the same protection as the original Air-Eagle Gold but with enhanced output power. This allows for a 50% increase in overall range, while improving signal strength through and around buildings and other obstacles. These combine to maintain an even stronger "link" between transmitter and receiver.



DIMENSIONS



Enclosure height equals 4 inches.

AIR-EAGLE® GOLD PLUS

900 MHz RF Receiver

MODEL 48-5000



CONTROLS AND INDICATORS

CONTROL / INDICATOR	FUNCTION
RECEIVER MODULE	RF module that receives data from the remote transmitter(s)
DISPLAY	7-Segment LED displays a number corresponding to the particular pushbutton code received from the remote transmitter.
OPTIONS	A bank of four dipswitches. These are for future expansion and are not currently used on this model.
RELAYS	Eight SPDT output control relays

GENERAL OPERATION

When the unit is installed and 120 VAC power is applied, the 7-segment display will show a zero. Once any transmitter has established communications with the receiver, relay #8 will energize.

DISPLAY VIEW	INDICATES
"0" (ZERO)	Power on / No transmission
	Transmission being received from remote transmitter. Depending on the contact information being received, Relays #1 through #7 will be energized.
"-" (DASH)	

SPECIFICATIONS

AC Input Models	120 VAC, 16 W, 50/60 Hz
Fuse Protected	1 amp
Transceiver Frequency	900 MHz 82 Channel Auto-Select
Receiver Range	Approximately 1 mile (up to 10 miles with external antennas - see accessories)
Enclosure	Hinged fiberglass with window / NEMA 4, 4x, 12 + 13

REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	48-5002
Air-Eagle 900 MHz Dual Contact Input TX	48-1000
Replacement Transceiver Antennas:	
900MHz TNC Portable Antenna – For Short Range Operation (less than 2/3 mile*)	49-1101
900MHz Omni Directional Antenna Medium Range Operation (Ranges Up to 2 miles *)	49-3101
900MHz 13.9 dB Yagi Antenna Long Range Operation (Greater than 2 miles / Up to 10 miles *)	49-3102
Inline Lightening 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 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.

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