

PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR 2.4 GHz RF Receiver MODEL 38HC-2000-DC

DESCRIPTION

The AIR-EAGLE SR is an RF system designed for short to medium range wireless remote control of electrical apparatus in a variety of industrial applications. Systems can consist of any number of receivers and handheld or contact input transmitters working together. This receiver is equipped with 3 independent relays that can switch 20 amps @ 120VAC or 30VDC. The relays are user programmable for momentary or toggle/latching operation and can be directly interfaced with the customer's equipment or P.L.C. Eight user selectable frequencies allow multiple systems to be used in the same area. Capable of receiving remote signals transmitted from up to 600 feet away, the Air-Eagle SR Receiver utilizes spread-spectrum technology and provides the utmost in security and reliability.

APPROVALS

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

APPLICATIONS

Doors, gates, barriers, tail gates, electrically controlled hydraulic valves, propane shut off controls, winches, anchor lifts, lights, sprinkling systems, movie screens, curtains, news weather screens, alarm systems, skeet throwers, saw mill applications, grain or aggregate chutes, conveyor belts, boat lifts, and more.

INSTALLATION

DISCONNECT DC Power from all equipment before installation.

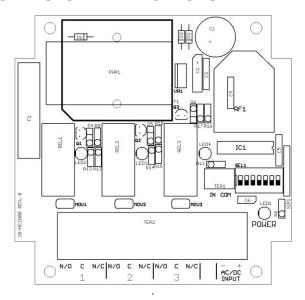
- 1. Mount the AIR-EAGLE SR RECEIVER in a convenient location.
- Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
- 3. Connect supplied power input cable to your external power source.

TERMINAL STRIP WIRING

1	2	3	4	5	6	7	8	9	10	11	12
N/O Relay #1	C Relay #1	N/C Relay #1	N/O Relay #2	C Relay #2	N/C Relay #2	N/O Relay #3	C Relay #3	N/C Relay #3	Not Used	(-) 9-26VDC) 9-36VDC



CONTROLS AND INDICATORS



DOWEDIED	Illuminates colella massioneria massioneral au	
POWER LED	Illuminates while receiver is powered on	
LED2	Illuminates when relay #1 is energized	
LED3	Illuminates when relay #2 is energized	
LED4	Illuminates when relay #3 is energized	
RF1	RF module that receives data from the remote transmitter	
REL1 thru REL3	High current SPDT output control relays	
SEL1	Seven dip switches for selecting relay options and operating frequency	

AIR-EAGLE® SR 2.4 GHz RF Receiver **MODEL 38HC-2000-DC**

RELAY & FREQUENCY SET-UP

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

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

RELAY CONFIGURATION						
SEL1 SWITCH NUMBER	OPEN	CLOSED				
SW1	Relay #1 momentary (default)	Relay #1 toggle/latch				
SW2	Relay #2 momentary (default)	Relay #2 toggle/latch				
SW3	Relay #3 momentary (default)	Relay #3 toggle/latch				

Maintained Momentary - Relay mimics button or input - when depressed or closed, relay will be energized; when released, relay de-

Toggle Latch - Relay changes (and holds) its state each time the corresponding button or input is depressed or closed.

NOT USED SW4 FREQUENCY SET-UP

	Network Frequency	SW5	SW6	SW7
	1 (default)	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
SEL1	3	OPEN	CLOSED	OPEN
(SW5-7)	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	CLOSED	OPEN	CLOSED
	7	OPEN	CLOSED	CLOSED
	8	CLOSED	CLOSED	CLOSED

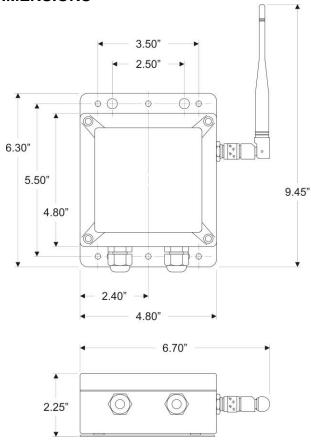
SPECIFICATIONS

DC Input	9-36VDC @ 10 WATTS	
Relay Contacts	SPDT 20 amp @ 120VAC or 30VDC	
Fuse Protected	1 amp	
Receiver Frequency	2.4 GHz Spread Spectrum	
Receiver Range	Up to 600 Feet	

Note: 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, rees, buildings, hills, and mountain

Receiver Channels	Eight independent network frequencies
Operating Temperature	-40° F to +185° F
Enclosure	Polycarbonate, IP66 (NEMA 4)
Weight	Approx 2 lbs.

DIMENSIONS



ACCESSORIES

Standard Antenna (Included):				
2.4GHz TNC "Rubber Duck" Antenna		49-1201		
High Gain 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 Ante	enna	49-2201		
2.4GHz Magnet Mount Omni Directional Antenn	na	49-2202		
2.4GHz Omni Directional Antenna	49-3201			
2.4GHz Yagi 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 (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)				

AIR-EAGLE® SR 2.4 GHz RF Receiver MODEL 38HC-2000-DC

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.