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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® SR 2.4 GHz RF Receiver MODEL 38-8000

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. This eight function receiver is equipped with high current SPDT relays and is user-programmable for up to 128 digital addresses and eight selectable frequencies to allow multiple transmitters and receivers to operate simultaneously in the same area without interference. Capable of receiving remote signals transmitted from up to 300 feet away (with the SR Transmitter) or up to 1200 feet away (with the SR Plus Transmitter), the model 38-8000 utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

APPROVALS

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

APPLICATIONS

Designed by request for an automobile manufacturing plant, this unit can also control 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 AC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR RECEIVER 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.



Dimensions (with mounting plate) 6.3" L x 4.8" W x 4.3" H

TERMINAL STRIP WIRING – BOTTOM PCB

1	N/O Relay #1	7	N/O Relay #3	13	120 VAC - (Neutral)
2	C Relay #1	8	C Relay #3	14	120 VAC - (Hot)
3	N/C Relay #1	9	N/C Relay #3		
4	N/O Relay #2	10	N/O Relay #4		
5	C Relay #2	11	C Relay #4		
6	N/C Relay #2	12	N/C Relay #4		

TERMINAL STRIP WIRING –TOP PCB

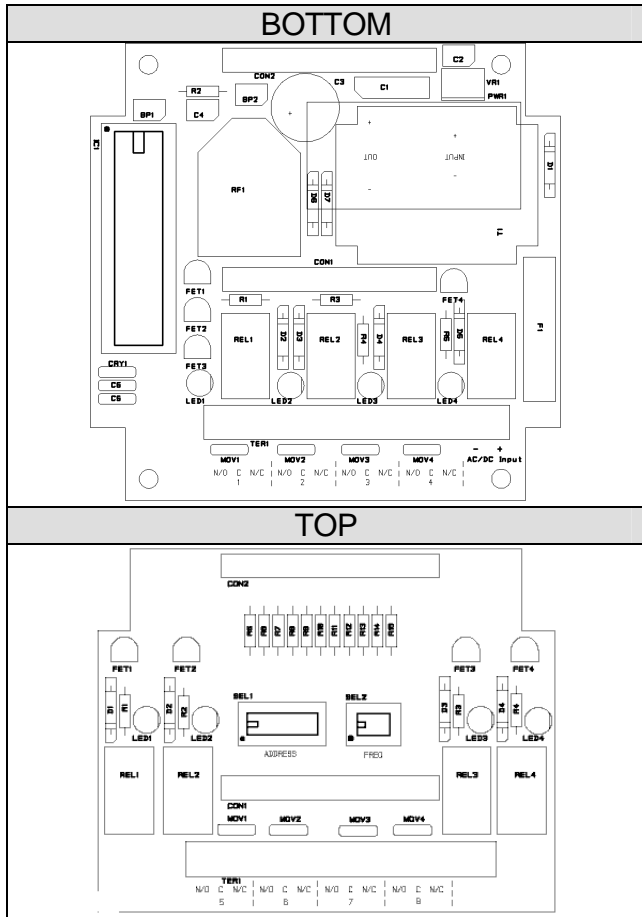
1	N/O Relay #5	7	N/O Relay #7	13	Not Used
2	C Relay #5	8	C Relay #7	14	Not Used
3	N/C Relay #5	9	N/C Relay #7		
4	N/O Relay #6	10	N/O Relay #8		
5	C Relay #6	11	C Relay #8		
6	N/C Relay #6	12	N/C Relay #8		

AIR-EAGLE® SR

2.4 GHz RF Receiver

MODEL 38-8000

CONTROLS AND INDICATORS



LED1 – LED8	Will be illuminated when the corresponding relay is energized
REL1 thru REL8	Eight SPDT output control relays

SPECIFICATIONS

AC Input	120 VAC, 16 W, 50/60 Hz
Relay Contacts	Eight SPDT 5 amp @ 120 VAC per channel
Fuse Protected	1 amp
Receiver Range – Dependant upon transmitter – see below:	
Using 38 Series TX	Approximately 300 feet
Using 36 Series TX	Approximately 1200 feet
Receiver Frequency	2.4 GHz Spread Spectrum
Receiver Coding	128 Digital Addresses
Receiver Channels	8 Independent Networks
Antenna Connection	TNC Bulkhead
Enclosure	ABS Plastic, NEMA 3, 3R, 4, 4X, 12 + 13
Operating Temperature	-40° F to +185° F

DIGITAL ADDRESS & FREQUENCY SET-UP

Address: The unit is shipped from the factory with SEL1 switches in the open positions (Digital Address = "0") If using this receiver with a *handheld* transmitter, this setting must *NOT BE CHANGED*. If using this receiver with a contact input transmitter, this setting can be changed by the user in any combination *but must match the transmitter that is set up to communicate with this receiver*.

Frequency: The frequency is factory set at #1. See the table below to change frequencies.

REMOVE POWER FROM RECEIVER BEFORE CHANGING ANY OF THE FOLLOWING DIP SWITCH SETTINGS!

SEL1 (Address)	Seven dip switches for selecting digital address of this receiver (Maximum of 128 combinations)			
SEL 2 (SW 1-3): <i>USED TO SET NETWORK FREQUENCY</i>	Network Address	SW1	SW2	SW3
	1	OPEN	OPEN	OPEN
	2	CLOSED	OPEN	OPEN
	3	OPEN	CLOSED	OPEN
	4	CLOSED	CLOSED	OPEN
	5	OPEN	OPEN	CLOSED
	6	OPEN	CLOSED	OPEN
	7	CLOSED	CLOSED	OPEN
8	CLOSED	CLOSED	CLOSED	
SEL2 (SW4)	Reserved for future use			

REPLACEMENT PARTS & ACCESSORIES

PC Board	38-8002
2.4GHz Rt. Angle TNC Rubber Duck Antenna	99-ANT-0004
Optional Antennas/Accessories:	
2.4GHz TNC Portable Antenna	49-1201
2.4GHz Mobile Magnetic Mount Antenna	49-2201
2 Ft. Bulkhead Assembly (Used when mounting receive inside another enclosure)	49-5004

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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