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# PRODUCT INFORMATION BULLETIN

## AIR-EAGLE® FM2 900 MHz RF Transmitter MODEL 43-1300 Series 2

### DESCRIPTION

The AIR-EAGLE FM2 TX is a handheld R.F. transmitter capable of sending up to sixteen unique digital commands to two Air-Eagle FM2 Receivers. The TX and RX combine to create a medium range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations of up to 1200 feet away. Four network frequencies allow multiple transmitters and receivers to operate simultaneously in the same area without interference. This transmitter will automatically go into "sleep" mode when no buttons are being depressed on the unit to dramatically extend battery life and is designed with a blank label that can be customized for each individual customer's application.

### INITIAL OPERATION SET-UP

This transmitter comes ready to operate, with batteries installed, and factory programmed to Network #1. No setup is necessary unless you wish to change the network setting.

For example, if you are setting up this transmitter to use with an existing system that is operating on Network #1, no change in this setting is necessary. However, if you wish to operate this unit with a receiver on another network, use the following procedure to change the network setting appropriately.

### PROGRAMMING

*Please read through these instructions completely before beginning programming procedure. At any time, you can check the current network setting by depressing Button 9 continuously until the TX LED is on. (Approx 4 seconds) then release all buttons and watch until the TX LED begins to blink. The TX LED will flash one, two, three or four times, directly corresponding to the current network setting. To change the setting, follow these steps:*

- Depress Button 9 (pgm) continuously until the TX LED is on. (Approximately 4 seconds)
- Release Button 9, then while the TX LED is still illuminated, depress button #1 to select "Network 1" or button #2 to select "Network 2" etc. If the transmit LED goes out before you have selected a network, no settings will have changed, **and** the LED will blink corresponding to the network that the TX is currently set to. You must then begin again at step 1 if you wish to change the current setting.
- The TX LED will blink to confirm that your network selection has been accepted, and then will go out. For instance, if you have selected Network #1, the TX LED will blink *once* to confirm. If you have selected Network #4, the TX LED blinks *four times* to confirm. Once the TX LED has gone out, you may release the button.
- Programming is now complete and the transmitter is active for normal operation.
- Repeat the above procedure if you wish to change network settings at any time. See note\* in SPECIFICATIONS.



4.75" L x 2.60" W x 1.4" D

### CONTROLS & INDICATORS

TX LED	Illuminates continuously while button is depressed and unit is transmitting. When this LED becomes dim, the battery needs to be replaced. See note*
Pushbuttons 1 thru 8 and 9 thru 16	Transmits individual button RF codes to the receiver
Pushbutton P/Shift	The P/Shift button performs two functions: 1. If button is depressed momentarily and another button is then pressed within 3 seconds, the higher code for that button is transmitted. This allows for transmission of codes 9 thru 16.  2. If button is depressed for longer than 3 seconds, the transmitter will enter "programming" mode. See PROGRAMMING section.

### SPECIFICATIONS

Power Requirements	6 VDC
Battery Type	(4) 1.5V alkaline each, size AAA , to equal 6.0VDC nominal.
<b>*Note: Current network settings are maintained in flash memory during battery replacement. No reprogramming of network settings is necessary!</b>	
Battery Life (Active Usage)	Up to 6 months
Battery Life (Sleep Mode)	Up to 1 Year
Transmit Frequency	900MHz Spread Spectrum
RF Output Power	1 mW
Transmit Coding	Four independent networks
Transmit Range	Approximately 1200 feet (line of sight)

**AIR-EAGLE® FM2**

**900MHz RF Transmitter**

**MODEL 43-1300 Series 2**

## 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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