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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT 900 MHz RF Transmitter MODEL 441-10100-DCI-120VAC

DESCRIPTION

The AIR-EAGLE XLT TX is an R.F. transmitter capable of sending a single 5-24VDC input command to an Air-Eagle XLT Receiver located up to 2500 feet away. Any number of transmitters and receivers can be combined to create a medium range radio frequency system that operates hazardous or hard-to-reach electrical apparatus from safe, convenient locations. Seven user-selectable frequencies allow multiple systems to operate simultaneously in the same area without interference.

APPROVALS

| | |
|---------------------|---------------|
| United States (FCC) | MCQ-XB900HP |
| Canada (IC) | 1846A-XB900HP |

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 AC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT TRANSMITTER in a convenient location.
2. Install wiring to input terminal strip
3. Install antenna onto connector located on the top of the enclosure.
4. Plug supplied AC adapter into 120VAC wall outlet.

TERMINAL STRIP WIRING

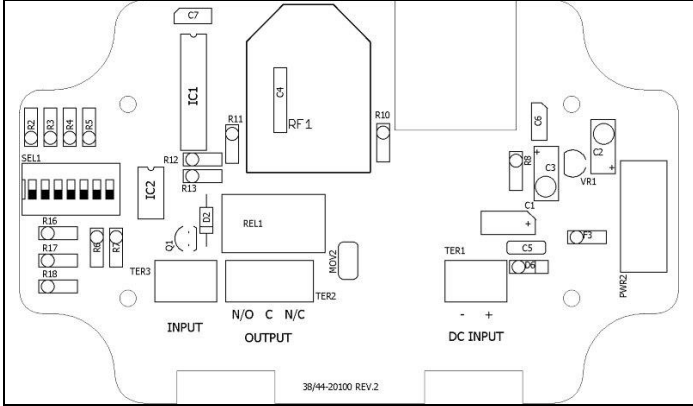
| TER 3 VOLTAGE INPUT | | TER 2 RELAY OUTPUT | | TER 1 AC/DC POWER INPUT | |
|------------------------|-------------|-----------------------|----------|----------------------------|---------------|
| 1 | (-) 5-24VDC | 1 | Not Used | 1 | (-) 9-36VDC * |
| 2 | (+) 5-24VDC | 2 | Not Used | 2 | (+) 9-36VDC* |
| | | 3 | Not Used | | |

*From supplied 120VAC wall plug adapter



Dimensions (with mounting plate) 7.07L x 3.57W x 1.62H

CONTROLS AND INDICATORS



| | |
|--------------|--|
| Power – LED1 | Illuminates green when unit is powered |
| TX – LED2 | Illuminates red when unit is transmitting |
| Relay – LED3 | Not used on this model |
| RF1 | RF module that sends data to the remote receiver |
| REL1 | Not used on this model |
| SEL1 | Seven dip switches for selecting operating frequency |

AIR-EAGLE® XLT

900 MHz RF Transmitter

MODEL 441-10100-DCI-120VAC

CHANNEL CODE & FREQUENCY SET-UP

The unit is shipped from the factory with all SEL1 switches in the open positions. By default it is transmitting Channel #1 code and operating on Frequency #1. If you wish to transmit a different channel code or and/or change the frequency, follow the instructions on the table below.

- 1) Remove power from unit
- 2) Remove top cover.
- 3) Select desired channel code and/or frequency using table below.
- 4) Reattach cover and apply power.
- 5) Programming is now complete.

CHANNEL SELECTION SET-UP

| SEL1 (SW1-4) | Channel Code To Be Transmitted | SW1 | SW2 | SW3 | SW4 |
|--------------|--------------------------------|--------|--------|--------|--------|
| | 1 (default) | OPEN | OPEN | OPEN | OPEN |
| | 2 | CLOSED | OPEN | OPEN | OPEN |
| | 3 | OPEN | CLOSED | OPEN | OPEN |
| | 4 | CLOSED | CLOSED | OPEN | OPEN |
| | 5 | OPEN | OPEN | CLOSED | OPEN |
| | 6 | CLOSED | OPEN | CLOSED | OPEN |
| | 7 | OPEN | CLOSED | CLOSED | OPEN |
| | 8 | CLOSED | CLOSED | CLOSED | OPEN |
| | 9 | OPEN | OPEN | OPEN | CLOSED |
| | 10 | CLOSED | OPEN | OPEN | CLOSED |
| | 11 | OPEN | CLOSED | OPEN | CLOSED |
| | 12 | CLOSED | CLOSED | OPEN | CLOSED |
| | 13 | OPEN | OPEN | CLOSED | CLOSED |
| | 14 | CLOSED | OPEN | CLOSED | CLOSED |
| | 15 | OPEN | CLOSED | CLOSED | CLOSED |
| | 16 | CLOSED | CLOSED | CLOSED | CLOSED |

FREQUENCY SET-UP

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

DOCUMENT DATE: 03/01/2019 / PRODUCT REV. 5



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SPECIFICATIONS

| | |
|-----------------------|--|
| AC Input | 100-240 VAC, 16 W, 50/60 Hz from supplied wall adapter |
| Transmitter Frequency | 900 MHz Spread Spectrum |
| Transmit Data | 5-24 VDC Input |
| RF Output Power | 250 mW |
| Transmit Range | Approximately 2500 Feet |
| Transmitter Channels | 7 Independent Network Frequencies |
| Antenna Connection | TNC Female Connector |
| Operating Temperature | -40° F to +185° F |
| Enclosure | Polycarbonate NEMA 4, 12, 13 – IP66 |
| Weight | Approx 2 lbs. |

REPLACEMENT PARTS & ACCESSORIES

| | |
|--|--------------------------------|
| PC Board (Main) | 441-10102-DCI-120VAC |
| Standard Antenna (Included): | |
| 900MHz Portable Antenna (For distances up to 2500 feet*) | 49-1103 |
| Optional Antennas and Accessories: | |
| 900MHz Omni Directional Antenna (For distances up to 2 miles*) | 49-3101 |
| 900MHz 13dB Yagi Antenna Long Range Operation (For distances up to 4 miles*) | 49-3102 |
| Flex Coax Cable w/Connectors | 49-4000-XX (XX = # of Feet) |
| * = 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.