

# FALCON PRO SYSTEM



## SETUP AND OPERATION GUIDE

**RFHERO™**  
**Industrial Controls**



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Version 3.0, Nov. 2017

# Falcon Pro System

## Remote Control Installation/Setup

### **General Information:**

The radio remote control that you are installing can be used for most electrical switching and control applications. Before beginning the installation and testing you should check that each item listed below is available and in good condition.

- 1. Antenna:** Magnetic mount antenna with 15ft of cable.
- 2. Receiver:** Usually pre-wired inside for most systems.
- 3. Transmitter:** Hand-held controller with pushbuttons.
- 4. Batteries:** (2) AA NiMH battery rechargeable for transmitter.  
\*\*\*\*\*Batteries need charged prior to first use\*\*\*\*\*  
Operator may use (2) AA alkaline batteries instead.



### **Wiring in Power Lines**

- **120VAC systems:** 120VAC systems are prewired using a standard 110V plug with supplied +13.5VDC adapter.
- **+12VDC Systems:** The +12V adapter cord can be used for +12V systems by simply cutting the cord to length and wiring the lead with the **white** stripe to +12V and the **black** only lead to Ground. \*Note– Optional power converter may be necessary for non-standard voltage.
- **24VAC Systems:** Use special connectors; contact us at (724) 610-5256



### **Wiring In Control Lines**

RFHero™ remote systems are wired to work with a variety of insulation machines. To easily adapt to other makes and models, please use the provided UAX-100 adapter cable and simply use the correct plug end for your machine. The most popular wiring convention that many insulation machine manufactures use is:

**Green–** Common Voltage

**White–** Blower/Air

**Black–**Material Feed

To utilize the UAX-100 simply use the following color code:

<b><u>UAX-100</u></b>	<b><u>Function</u></b>	<b><u>Machine Side</u></b>
Green	Common Voltage	Green
Brown	Air/Blower	White
Blue	Material Feed	Black



### **Maintenance Notes**

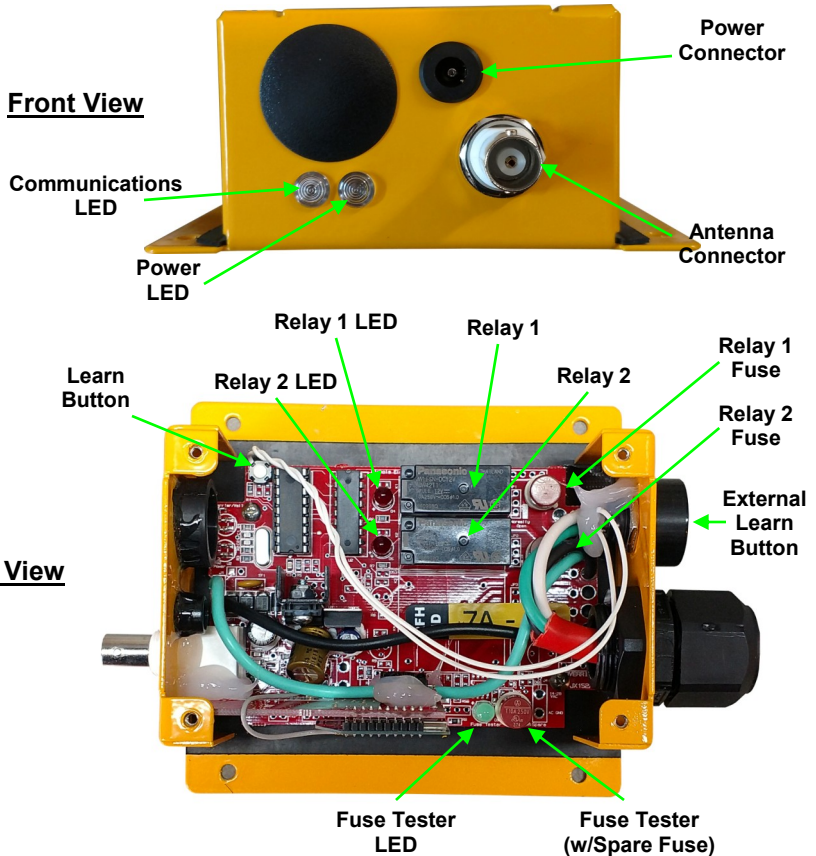
- The receiver box should be kept dry and should be periodically dusted off.
- Check the transmitter's batteries weekly. Only use two (2) AA alkaline or equivalent rechargeable batteries. When the batteries are weak the Transmitter's LED will light on red and off slowly and you may notice some reduced operating range.
- Clean the antenna periodically with mild soap and water; do not immerse in water. Allow to dry completely before use.
- If unit is to be returned for service, please clean the transmitter and the receiver before sending it back. Visit [www.rfhero.com/request-rma.php](http://www.rfhero.com/request-rma.php) to issue an RMA for system maintenance.



**For help with installation or service**  
**Phone: (724) 610-5256**  
**Web: [www.rfhero.com](http://www.rfhero.com)**  
**Email: [service@rfhero.com](mailto:service@rfhero.com)**

**FC** Contains FCC ID: MCQ-XB900HP  
The enclosed device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (I.) this device may not cause harmful interference and (II.) this device must accept any interference received, including interference that may cause undesired operation.

# Falcon Pro Receiver



## Operating Instructions

1. Place two (2) AA batteries in the transmitter. The LED on top will flash red a few times. Once this stops, pressing any button on the transmitter will cause the LED on top to rapidly flash green.
2. Plug the Falcon Pro receiver power adapter into a powered outlet, then into the Falcon Pro receiver. The Power LED (red) should now be lit.
3. After a few seconds the Communications LED should flash green three (3) times. If it flashes any other number of times, then the mode is wrong. Please contact RFHero Support to quickly and easily resolve this.
4. Pressing a button on the transmitter will cause the LED on the top of the transmitter to flash green to indicate that the signal has been sent.
5. The Communications LED on the receiver will flash green/red (may appear orange) to indicate that a valid message has been received from the transmitter. You may also be able to hear the relay click inside the receiver. If the lid is removed from the receiver, you will also see the relay's LED turn on and off as the transmitter's buttons are pressed.
6. If the Communications LED flashes red only, the transmitter is not paired with this receiver. Please follow the directions on the next page titled, "Pairing the Falcon Pro Receiver and Transmitter".
7. Your system is now operational and ready for use!

## **"Remote Beacon" Transmitter Locator**

Your new transmitter (the hand held pendant with the buttons) is equipped with the REMOTE BEACON.

When the transmitter is first powered on (i.e. putting in a fresh set of batteries) or awakened from its sleep state (i.e. pressing any button when "asleep"), it will emit a series of audible beeps to alert the operator that the Remote Beacon feature is activated. The remote will function normally until one of the two following events occur:

- The operator puts the remote to "sleep". To disable the Remote Beacon feature, simply hold the OFF button down for about six (6) seconds. The remote will respond with a series of beeps, release the OFF button as soon as the beeping begins. If you do not release OFF button quick enough, the remote will alert you that it is still "awake" with another series of beeps a few seconds after the first series ends. If this occurs, repeat the process and release the OFF button as soon as the beeping starts.
- The Remote Beacon feature self-activates. After approximately 60 minutes of inactivity (i.e. after the last button press that was not a "go-to-sleep command"), the transmitter will emit a series of loud beeps at approx 1 minute intervals. This "Beacon" alarm will continue for approximately 24 hours or until a button is pressed on the transmitter (during a silent period, not when the alarm is going off). The action of pressing a button resets the 1 hour timer and the remote will function normally again until it is "put to sleep" or 1 hour of inactivity occurs again.

Please remember to put your Transmitter "to sleep" after your job is complete to avoid an unwanted alarm trigger and to preserve battery life (or remove batteries).

### **Pairing the Falcon Pro Receiver and Transmitter (Learn Mode)**

#### **ATTENTION!**

*This section contains the pairing instructions for **REPLACING** or **ADDING** an additional remote transmitter. Your new transmitter and receiver are already paired from the factory and this procedure is unnecessary for a new Falcon Pro kit.*

1. Locate the external learn button adjacent to the control cable of the Falcon Pro receiver.
2. Repeat steps 1 & 2 of the "Operating Instructions" section on the previous page. You have 60 seconds to complete the Learn Mode procedure once step 2 is complete.
3. After the Communications LED flashes three (3) times, press and hold the Off button on the transmitter.
4. Press and hold the Learn button in the Falcon Pro receiver.
5. Release the Off button on the transmitter for five (5) seconds.
6. Press the Off button on the transmitter again.
7. Release the Off button on the transmitter and the Learn button on the Falcon Pro receiver.
8. The Communications LED on the Falcon Pro receiver should now flash green/red (may appear orange) when a button on the transmitter is pressed.
9. Replace the lid and screws on the Falcon Pro receiver.
10. The transmitter and Falcon Pro receiver are now paired together.

#### **Basic Troubleshooting**

- If the transmitter's LED flashes red slowly several times then stops, the batteries should be replaced or recharged.
- Make sure that the red Power LED is lit when the Falcon Pro receiver is plugged in.
- If operational range seems reduced, check the antenna for a broken wire or loose connection.
- Verify that the Falcon Pro receiver blinks green three (3) times anytime power is turned on.
- Verify that the control cable is securely connected, properly wired and undamaged.
- Be sure to check relay and fuses if any controls are not working.
  - All units contain a built-in fuse tester and spare fuse. Refer to Falcon Top View on previous page.
- Please visit [www.rfhero.com](http://www.rfhero.com) and click on the Support tab for more help.
- Contact us for more assistance at (724) 610-5256, or email us at [service@rfhero.com](mailto:service@rfhero.com)



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Manufacturer Support**  
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