The Windy Nation Linear Actuator wireless remote control is a complete set of application configurable components to be used to control and complement the Windy Nation DC linear actuator line. The controller is very easy to use and offers stable performance with low power consumption.

Each receiving controller can work with multiple transmitters to offer remote push button operation for raising and lowering the actuator arm to precise limits.

**INSTALLATION**

1. Mount the actuator (not included) per the recommended procedure from the manufacturer.
2. Slide the 3mm heat-shrink tubing (included) over the red and black wire if the actuator supply and connect the red wire to the red wire of the actuator connection cable (item #3) and the black wire to the black wire of the actuator connection cable.
3. Twist the two joined wired pairs together to secure them (soldering is recommended but not required), slide the heat shrink back over each joined wire pair, and heat the tubing with a hair dryer to shrink around wired connections.
4. Connect the actuator connection cable to the wireless remote receiver (item #2) and lock in place using the captive latching connector.
5. Connect the wireless remote receiver (item #2) to the power supply unit (item #1) and lock in place using the captive latching connector.

**WARNING:** If the Windy Nation power supply (LIN-SPSU-12) is not used, a 12V power supply rated at 5A or larger must be used. The power supply will need to be connected directly to the control receiver by removing the latching connector preinstalled on the control receiver.
Optional Equipment
- If additional cable is required either between the power supply unit and the control receiver or between the control receiver and the actuator, Windy Nation offers a 5M extension cable (PN LIN-XCBL-15) for purchase.
- In order to control two (2) Actuators using one control unit, Windy Nation offers a dual actuator adapter cable that includes an additional actuator connection cable. The dual adapter cable will be wired in between the control receiver (item #2) and the actuator extension cables, as shown below.

![Diagram of dual actuator adapter cable](image)

OPERATION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Operating Current</td>
<td>15mA</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>433.92M</td>
</tr>
<tr>
<td>Operating Distance</td>
<td>20~30M</td>
</tr>
</tbody>
</table>

1. Press “UP” key on the Remote Control Transmitter (item #4) to extend the linear actuator
2. Press “DOWN” key on the Remote Control Transmitter (item #4) to retract the linear actuator.
3. During any movement, press the other directional key to stop the actuator at its current location.

Pairing Instructions
The wireless remote control unit (Part # LIN-RCSW-WL) includes a Wireless Remote Control Receiver and a Wireless Remote Control Transmitter that are paired together at the factory and do not need to be paired again.

Pairing is only required when you are replacing the original Wireless Remote Control Transmitter or Receiver, or if you purchased additional Wireless Remote Control Transmitters and can be accomplished as follows:
1. Confirm that the Wireless Remote Control Receiver is not connected to a power supply. If so, remove power to the receiver.
2. Press and hold any button on the Wireless Remote Control Transmitter, keeping the button pressed until step 4 is complete.
3. Connect your 12 VDC power source to the Wireless Remote Control Receiver.
4. Wait five seconds
5. After five seconds, release the button on the Wireless Remote Control Transmitter that you were holding down.

The indicator light will blink 3 times and then the light will turn off indicating that pairing was successful.

The ‘paired’ handset will now work with the controller.

TROUBLESHOOTING
Unit will not extend/retract

<table>
<thead>
<tr>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bad Connection</td>
<td>Inspect for broken or loose wires between each connection.</td>
</tr>
<tr>
<td>Power Supply is Bad</td>
<td>Measure the voltage from the power supply directly at the wired ends to ensure 12V is present.</td>
</tr>
<tr>
<td>Insufficient Current</td>
<td>Power may be reaching the motor, but with insufficient current to provide full load moving capacity. Use an amp meter to confirm that sufficient current is reaching the actuator.</td>
</tr>
<tr>
<td>Remote Control is not paired</td>
<td>Follow pairing instructions above to pair the remote control with the receiver unit.</td>
</tr>
</tbody>
</table>

WARRANTY
Windy Nation warrants the item to be free of manufacturing flaws for a period of one (1) year.
Windy Nation is not responsible for any injuries and/or damages caused as a result of not complying with the specifications stated.