

Operational Description of Wireless Transmitter WZ8-WT-002

The wireless transmitter consists of 5 Normally Open Push Button Switches, Encoder, Transmitter Module, and a $\frac{1}{4}$ wave antenna.

When a button is pushed (+, -, Hold, Run, or Blast) 3VDC is relayed to the Encoder on the address pin which then outputs a serial bit stream that is unique to each button. A 100kHz Oscillator in the Encoder carries the Serial Bit Stream to the Transmitter Module.

A Linx Tech Wireless Transmitter Module combines the 100kHz Serial Bit Stream with a 418MHz RF Carrier that is provided from a High Precision 418MHz Crystal Oscillator. The output signal is sent out to the antenna.

The antenna is a $\frac{1}{4}$ wave, permanent mount, Monopole Whip with a Helical Element and radiates the RF Output Signal to the Matched Receiver.

The device is designed to assist in Set-up, Calibration, and Troubleshooting for the Sprayer Implement Control the Receiver is connected to. The Blast function is only available for Systems that are designed for Highway Deicing where the operator may want to add extra solution to intersections or overpasses.

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