

## Theory of Operation

### T. J. Wisemen Transmitter

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The transmitter is activated by pressing a pushbutton. The pushbutton then activates an electronic controlled power switch, said electronic controlled power switch then passes battery power to some circuits. To insure proper transmitter activation, even with a short pushbutton key closure, circuits are added that provide a 0.7 second minimum transmitter activation independent of the actual duration of the pushbutton closure.

During transmitter activation, a 6.8KHz oscillator is enabled. Said 6.8 KHz oscillator then gates off/on a 915 MHz RF oscillator. This gating provides 100% amplitude modulation of the 915 MHz RF oscillator at a 6.8 KHz rate.

The output of the 915 MHz RF oscillator is connected to a antenna , said antenna provided by an etched trace of the printed circuit board.