

## **TECHNICAL DESCRIPTION**

### **MODEL #39 REMOTE TRANSMITTER**

#### **DESCRIPTION**

The transmitter is a low-power communication device operating at frequency range from 300-320MHZ and 340-390MHZ by selecting the "FREQ" switch (SW1). The signal is a digital-coding modulated transmission which transmitted data to a receiver. This digital coding provides different patterns by selecting "CODE" jumpers (J1) and "BRAND" jumpers (J2).

#### **FUNCTION**

The momentary switch (SW2) activates the transmission and the LED (DS1) lights up for indication.

The digital modulator is employed in the proprietary integrated circuit (U1), which sends encoded digital data by selection code jumpers. Ceramic Resonator (Y1) and Capacitor (C9, C10) established the clock rate of 4MHz.

The oscillator is an LC oscillator formed by transistor (Q1) and associated components. The frequencies of oscillation are controlled by VC1 or VC2 or VC3 or VC4. The inductive load L3 is configured on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R2) in conjunction with the base bias circuit (R1) regulates the power output of the transmitter.

The unit operates from a 12V battery.

Warning: Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user's authority to operate the equipment.