Operation Description

The transmitter consists of oscillator, transistor(to amplify the signal) and encoder. The oscillator generate the 315MHz frequency. The encoder generates a binary code set. A total of 16 code sets can be selectable via the DIP switches to avoid the interference from the same kind of transmitter. The binary code is then transmitted to the antenna by the transistor.

Frequency Error: The frequency error is controlled by the oscillator.

Output Power Test: The operating current of the Transistor in the transmitter is regulated by the output of the encoder(Refer to the schematics diagram). The variable resistor between the encoder and the transistor can be adjusted to control the output power. In the tune up procedure, the transmitter output is connected to the spectrum analyzer, the output power is monitored and then adjusted. Once the procedure is finished the resistor is not adjustable by end users.