



8/11/2004

400TX Wireless Transmitter

Model Number: 400TX

Specifications:

- Input: 12 volt battery, type A23
- Circuit voltage: ~5.0 volts DC. Battery output is regulated by a series regulator power supply circuit (transistor & zener diode).
- Radio Frequency: 315 MHz
- User-selectable address codes: 8

Theory of Operation:

The remote is normally off with the RF transmission starting when the pushbutton is depressed momentarily. When the normally open pushbutton is depressed, it connects the circuit the battery, thereby completing the circuit. When circuit is completed, the encoder outputs a 3 KHz 12-bit transmission to the RF tank circuit transmitting the information on a 315 MHz carrier frequency. The encoder continues to transmit as long as the pushbutton is depressed.

The 12-bit output consists of an 8-bit address and 4 bits of data. The user-selectable address is set with header jumpers 1, 2, and 3. The other address lines are permanently set low.

The 400TX utilizes the same size printed circuit board, similar power supply circuit, similar encoder IC, and RF tank circuit as the WB-94A-TX. The circuitry and component values are exactly the same.