

## TECHNICAL DESCRIPTION

KEYLESS ENTRY SYSTEM

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## TECHNICAL DESCRIPTION OF TRANSMITTER

THIS SECURITY CODE WHICH CONTROLS THE MAIN UNIT IS PRODUCED BY THE ENCODER IC( AND FED INTO THE SAW(SURFACE ACOUSTIC WAVE) RESONATOR.

THE SAW RESONATOR IS TRANSMITTER CARRIER OSCILLATOR FOR SUPERIOR FREQUENCY STABILITY. THE CARRER IS MODULATED AS AN AMPLITUDE SHIFT KEYING(ASK) METHOD BY THE INPUTED DIGITAL SECURITY CODE. THE OUTPUT FROM SAW RESONATOR IS FED INT AMPLIFIER(Q1). THIS AMPLIFIED SIGNAL IS FED INTO THE LOOP ANTENNA ON THE PCB(PCB PATTERN ANT). THIS UNIT EMPLOYS 2 PUSH BUTTONS SWITCHES THAT WILL ACTIVATE OR DEACTIVATE THE ALL CIRCUIT.

A BLOCK DIAGRAM AND CIR CUIT DIAGRAM ARE ATTACHED.

### BLOCK DIAGRAM DESCREPTION FOR TX UNIT.

1. ENCODER CIRCUIT  
THIS CIRCUIT MAKES PRESETTED CODE
2. FREQUENCY OSCILLATOR AND MODULATOR  
THIS CIRCUIT MODULATES THE CODE FROM ENCODE BY THE MODULATION
3. AMPLIFIER  
THIS CIRCUIT AMPLIFIER THE MODULATORED CODE.
4. BATTERY  
BATTERY SUPPLIES ELECTRIC POWER FOR ALL COMPONENTS ON TX UNITS.

## KEYLESS ENTRY SYSTEM

FIGURE 1: KEYLESS ENTRY (TX UNIT )BLOCK DIAGRAM