Operational Description

The car alarm transmitter is a low powered, hand held unit for remote controlling the car locks and other features. See the function descriptions in attached. The transmitter is powered by a 12 volt battery. It is designed to operated on a single fixed frequency at 434 MHz. See the attached block diagram and schematic.

There are 2 buttons trigger the integrated circuit (IC1) which produces the digital control signals and will modulate the carrier signal. The carrier signal is generated by a crystal oscillator/ amplifier circuit comprised of a 434 MHz SAW(SAW) and a npn transmitter (TR1). The modulated output of the RF amplifier stage is coupled to the PCB strip antenna. The coupling network comprised of C1, C2 and C3. The strip antenna is attached on PCB permanently around 30 mm.

The transmitter is manually operated by the buttons pushed and will automatically deactivate instant after the button being released. This feature is incorporated by the IC1 internally.

All tuning and verification are performed by the manufacture and there are no adjustments can be made by the user. No external ground is required or used with this transmitter.