

Description of Operation

The combination of the in vehicle and handheld unit form an RF based two way remote vehicle start/keyless entry system. The system operates at a frequency of 315Mhz. The in bound transmission from the keyfob transmits with a data rate of 4.2kb while the return message from the in vehicle unit is at a data rate of 2.1kb. The structure of the transmission is such that it allows for a duty factor of 20db.

When a button on the keyfob is pressed, for example the lock button, a lock command is transmitted to the vehicle. When the command is received the vehicle then transmits back a confirmation that the event occurred. This response back can be seen on the lcd screen of the keyfob for lock you would see the lock icon lock. The other buttons function in a similar fashion unlock would show the lock icon unlocking. The side buttons are used for turning on the backlight and entering the menu mode which displays various information such as odometer and fuel level.