**Remote Keyless Entry(RKE)**

**Description :-**

The term remote keyless system (RKS), also called keyless entry or remote central locking, refers to a lock that uses an electronic remote control as a key which is activated by a handheld device or automatically by proximity

**Components**

RKE transmission requires mainly two components :- Transmitter and Receiver

**Transmitter:-**

* The RKE key fob contains the transmitter in it to transfer the signals to the automobile.
* Instead of the key fob we can also use other ID device with RKE integrated

**Receiver:-**

The Receiver will be placed on to the Body Control ECU of the automobile or in any other ECU with integrated RKE

**Functionality:-**

* When you press a button on your key fob, you’re waking up its Central Processing Unit (CPU) inside.
* The CPU sends a data stream to the radio frequency (RF) transmitter. The keyless remote is actually a radio.
* This data stream contains command and for security, rolling codes.
* The remote keyless system’s receiver in the car captures the RF signal, extracts it and sends the data stream to the CPU.
* The CPU decodes it and sends commands to the command module.

**Features**

* It shall Lock the car for one User Button Click
* It shall Unlock the car Two User Button Clicks
* It shall activation/deactivation alarm for Three User Button Clicks
* It shall activate approach light for Four User Button Clicks