

Remote Keyless Entry  
(BONTEC-T016,  
BONTEC-E016)

BONTEC Co., Ltd.

#27-31, HANCHUN-RI, DUCK-SAN -MYUN,, JINCHUN-GUN,CHUNG-BUK,KOREA

### **FCC COMPLIANCE STATEMENT**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.  
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION;  
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND  
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,  
INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED  
OPERATION.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## USER MANUAL

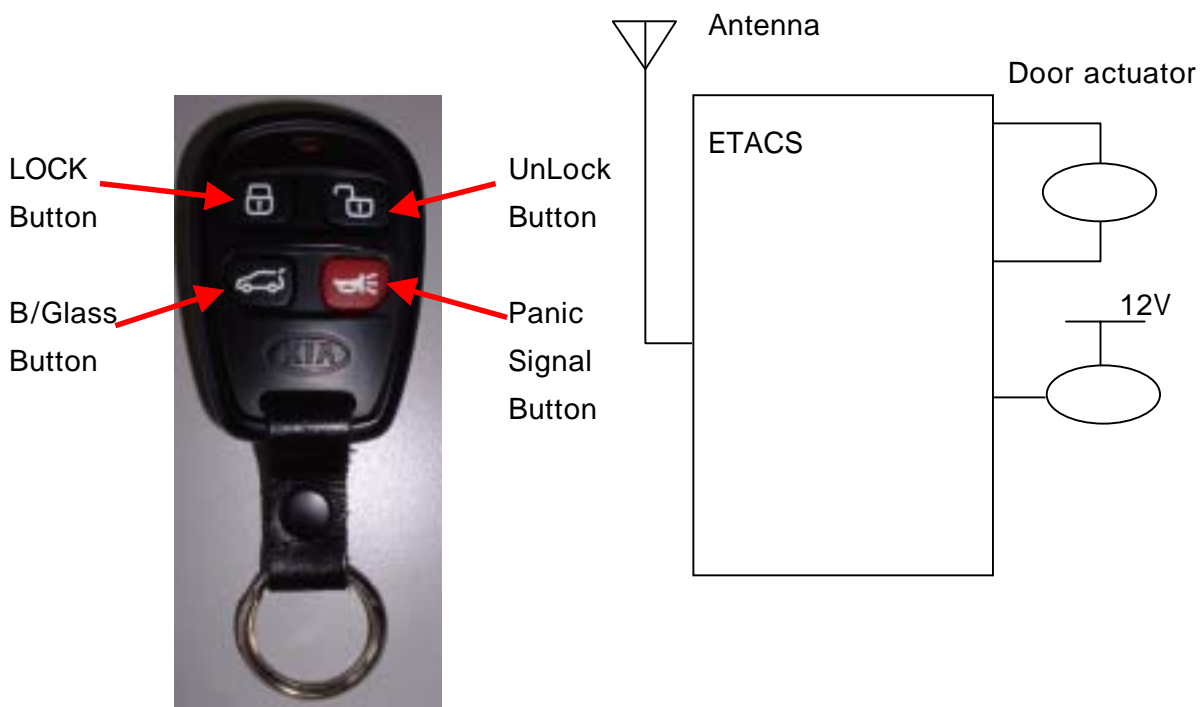
NAME: REMOTE KEYLESS ENTRY SYSTEM

This RKE System is to be installed on motor vehicles as OE (Original Equipment) item

It is intended for auto-locking/unlocking of the door

## SYSTEM CONSTRUCTION

### SYSTEM IN VEHICLE



## OPERATING SUMMARY

1. By the driver of the vehicle, TRANSMITTER's button is pushed.
2. TRANSMITTER sends appropriate CODE by RF frequency.
3. ETACS gets the code and decodes it.
4. When Rx proves it to be the right code, ETACS control Door relay
5. ETACS receive it, and drive the actuator.

The system has the function as follow:

- Whenever DATA is send to ETACS, LED is turned 'ON'.

### 1) LOCK & UNLOCK

If LOCK or UNLOCK button is pushed for less than 1 sec, then  
TRANSMITTER sends the LOCK or UNLOCK DATA.

### 2) REAR GLASS OPEN

IF REAR GLASS OPEN button is pushed for less than 1 sec, then  
TRANSMITTER sends the Rear Glass open data

### 3) PANIC

If PANIC button is pushed for more than 2 sec, then  
TRANSMITTER sends the PANIC (Burglar alarm)

# Description of Transmitter and ETACS

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## 1. PRIMARY FUNTION

- Remeto door lock/unlock/Back Glass Open/Panic
- LED turn on ( When the lock/unlock/B.G.O/Panic button is pushed )
- Operating distance : 7~ 10 m

## 2. ELECTRICAL CHARACTERISTICS

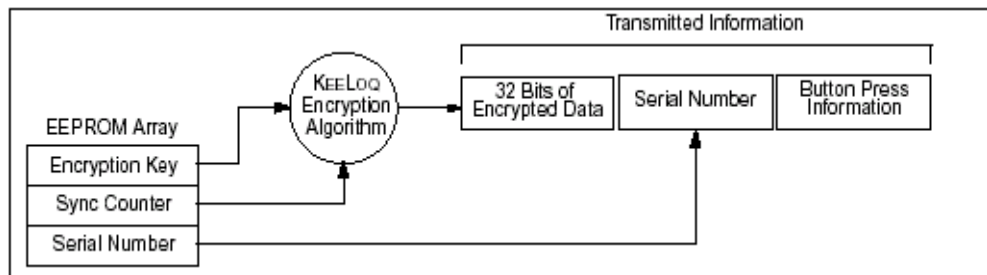
	TRANSMITTER	ETACS
Operating voltage	3 VDC	10 ~ 16 VDC
Consumption current	Max 20mA	Max 5.5mA
Operating frequency	315MHz	
Power	10mW under	-
Sensitivity	-	-105dBm(typical)
Operating temperature	-20 ~ +60	-30 ~ +80
etc	AM modulation	Super-heterodyne



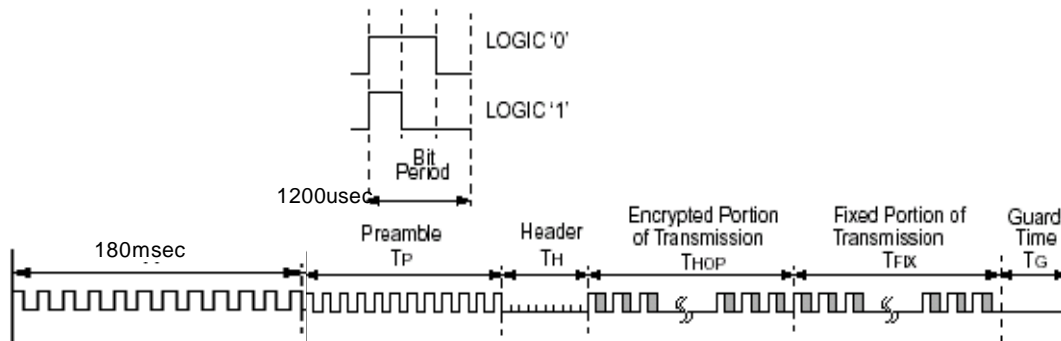
### 3. OPERATING DIAGRAM

#### 1) TRANSMITTER

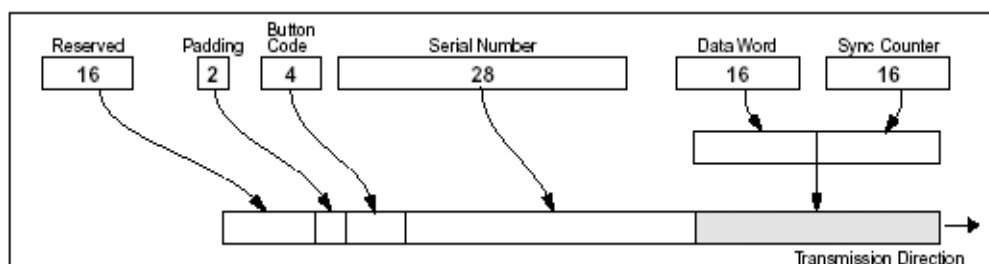
##### A) BASIC OPERATION OF TRANSMITTER (ENCODER)



##### B) CODE WORD ORGANIZATION



##### C) TRANSMISSION WORD FORMAT DURING SYNCHRONOUS TRANSMISSION MODE



## 2) ETACS

