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Product name: FOB Smart Key  
Model Name: FOB-4F87M54  
H/W Version: 1.00

HYUNDAI MOBIS Co., Ltd.

#80-1 Mabuk-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

# Outline & Description

## 1. The Outline of FOB-4F87M54

- This unit is a Transmitter.
- FOB-4F87M54 is a part of Remote Keyless System.
- This unit controls door lock/door unlock/**tail gate open/panic/remote engine start-stop/forward/backward/PSD LH/PSD RH** wirelessly.

## 2. Description of FOB-4F87M54

### (1) Introduction

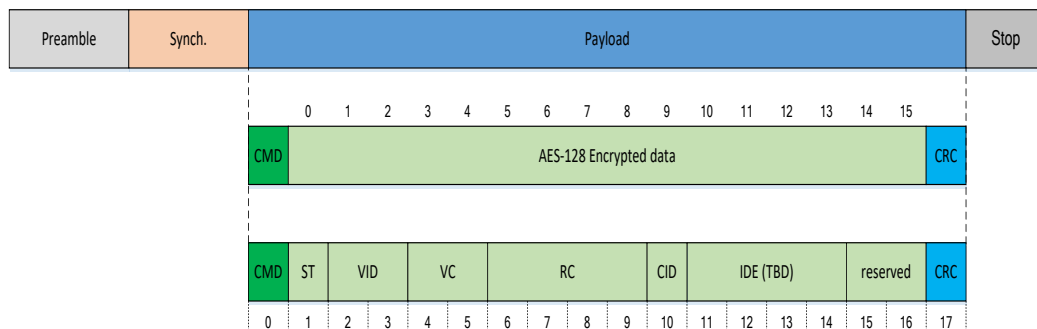
- This unit has 9 buttons.
- This unit uses a battery(CR2450)

### (2) Electrical Characteristics

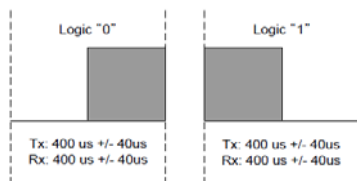
|              |             |               |              |
|--------------|-------------|---------------|--------------|
| Model        | Transmitter | Approval No.  | FOB-4F87M54  |
| Center freq. | 433.92MHz   | Oper. Voltage | 3V DC        |
| Power        | 1mW under   | Oper. Temp.   | -10 ~ +60 °C |
| Modulation   | FSK         |               |              |

### (3-1) Data Format : UHF 433.92MHz

#### - Data Frame



#### - Transmission Specification



- \* Baud Rate : 7.8 kbps
- \* Coding Method : Manchester
- \* Total Data for 1 sending : 178bit/frame
- \* Total Time for 1 sending : 309ms (with off-time)

### (4) Antenna Type: PCB Pattern Antenna / Antenna Gain: - 11.61 dBi

# FCC/ISED NOTICE

## [FCC]

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC

## [ISED]

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the ISED

Cet appareil est conforme aux limites d'exposition aux rayonnements de l'ISDE pour un environnement non contrôlé.

L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur, à moins d'y être autorisé par l'ISDE.