


# User Manual

적용차종 QY FOB 4BT			페이지(SHT/SHTS) 1/4	
작성처 Wireless Design TEAM	INFORMATION DOCUMENT NO.			
Title : RELATING TO CE TYPE-APPROVAL AS SEPARATE TECHNICAL UNIT OF VEHICLE RF REMOTE KEYLESS ENTRY IN SMART KEY SYSTEM				
목차				
Information Document (5 sheets: Include cover)				
Attachment 1 – System diagram (1 sheet)				
Attachment 2 – Fob block diagram (1 sheet)				
Attachment 3 – Schematic of fob (Each 1 sheet)				
Attachment 4 – Layout of fob (1 sheet)				
Attachment 5 – Part List (1 sheet)				
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		결재		승인

<b>Title :</b>  <b>Information Document</b>	<b>NO.</b>  <b>Date</b>
<div data-bbox="1225 371 1437 405" style="text-align: right;">SHT/SHTS : 2/4</div> <div data-bbox="228 454 483 488">0. GENERAL</div> <div data-bbox="228 584 400 618">0.1. Make</div> <div data-bbox="330 667 791 701"> <b>MOBASE ELECTRONICS Co.,Ltd.</b> </div> <div data-bbox="228 752 464 786">0.2. Model No.</div> <div data-bbox="330 837 999 916"> <b>- Transmitter : FOB_MBEC4FOB2006</b>  <b>- Receiver : (IBU : Intergrated Body control Unit)</b> </div> <div data-bbox="228 967 791 1001">0.3. Name and address of manufacturer</div> <div data-bbox="330 1050 1474 1128"> <b>MOBASE ELECTRONICS Co.,Ltd.</b>  <b>100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of K</b> </div> <div data-bbox="228 1180 675 1214">0.4. Address of assembly plant</div> <div data-bbox="330 1263 1474 1341"> <b>MOBASE ELECTRONICS Co.,Ltd.</b>  <b>100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of K</b> </div>	

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**2. PRODUCT SPECIFICATION**

2.1 Scope of RKE, passive entry control, passive start control in SMART Key system.

2.1.1 FOB KEY : It has the functions for passive entry and passive start including RKE functions. It also has the TP for emergency authentication for passive start

2.1.2 SMART Key system : It is an ECU to control the whole smart key system. It has the functions such as passive entry control, passive start control, RKE functions.

**2.2 SPECIFICATIONS**

**2.2.1 FOB KEY**

ITEM	SPECIFICATION
Rated supply voltage	DC 3V
Operating voltage range	DC 2.5 ~ 3.2V
Operating temperature range	- 20 ~ + 60℃ with Battery
Storage temperature range	- 40 ~ + 85℃ without Battery
Modulation	FSK
Frequency	433.92MHz
Code	Rolling Code(Hopping Algorithm)
Electric field strength	1mW (433.92MHz)
Battery life	2 Year(10Times/Day)(Lithium 3V 1EA)

**2.2.2 RECEIVER**

Item	Specification
Rated Supply Voltage	DC 12V
Operating Voltage	DC 9 ~ 16V
Operating Temperature	- 30 ~ + 80℃
Max Humidity	95%
Standby Current	Below than 5.5mA (in alarm setting condition)

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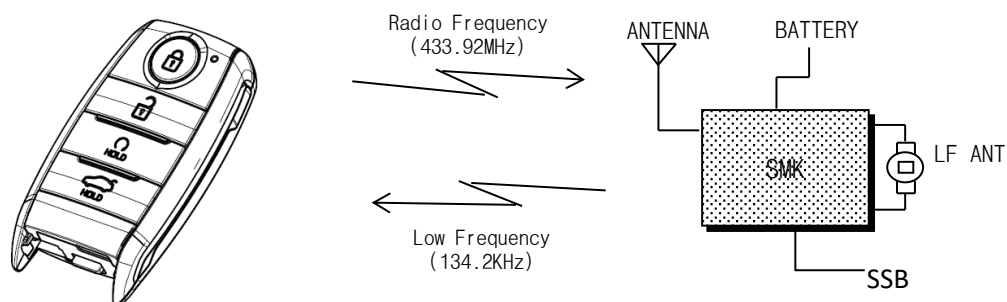
**3. USER MANUAL**

**3.1 ITEM : FOB LF system**

- This system is IBU and includes RKE.
- RKE in SMK system is intended for auto door lock or unlock or TRUNK in vehicle.
- This SMK system is to be installed on motor vehicles as \*OE item.
- \*OE : Original Equipment.
- \*IBU : Integrated Body control Unit
- \*RKE : Remote Keyless Entry.

**3.2 SYSTEM CONSTRUCTION**

**3.2.1 SYSTEM IN VEHICLE**



- ① When the lamp of "B+" is 'On', it means that power is supplied.
  - ② When the SSB is pressed in position of INT1 ANT Switch on, it means a start-up function that ACC\_RLY and IGN1\_RLY lamp is 'On'(SSB\_SW1, SW\_2 'On').
  - ③ When the SSB is pressed repeatedly, ACC\_RLY and IGN1\_RLY is 'On' and 'Off', repeatedly.
- \* It shows the status of operation through the lamp used.



# USER MANUAL

## FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information :** 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