
	Name of document(문서명) <b>Engineering <input checked="" type="checkbox"/> Report <input type="checkbox"/> Notice</b>		Reg. No(문서번호) <b>DR-A232</b>	Page <b>1 / 6</b>
	Subject(제목) <b>A232 User 's Manual</b>		Version(이력) <b>Rev</b>	Date(작성일) <b>2009.10.28</b>
Part No(품번) <b>A232</b>	Name of Product(제품명) <b>SMART KEY TAG</b>	Prepared(작성) <b>JJI</b>	Reviewed(검토) <b>-</b>	Approved(승인)

<Revision History>

Rev	Date	Page	Before Change	After Change	Composi -tion	Approval
	2009.10.28		First Release			

Distributed(배포처)

	Name of document(문서명) <b>Engineering</b> <input checked="" type="checkbox"/> <b>Report</b> <input type="checkbox"/> <b>Notice</b>	Version(이력)	Page <b>2 / 6</b>
	Subject(제목) <b>A232 User 's Manual</b>	Reg. No(문서번호) <b>DR - A232</b>	

## <Contents>


### Revision History

#### 1. Synopsis

#### 2. Product Image

#### 3. Block Diagram


#### 4. Specification

	Name of document(문서명) <b>Engineering <input checked="" type="checkbox"/> Report <input type="checkbox"/> Notice</b>	Version(이력)	Page <b>3 / 6</b>
	Subject(제목) <b>A232 User 's Manual</b>	Reg. No(문서번호) <b>DR - A232</b>	

## 1. Synopsis

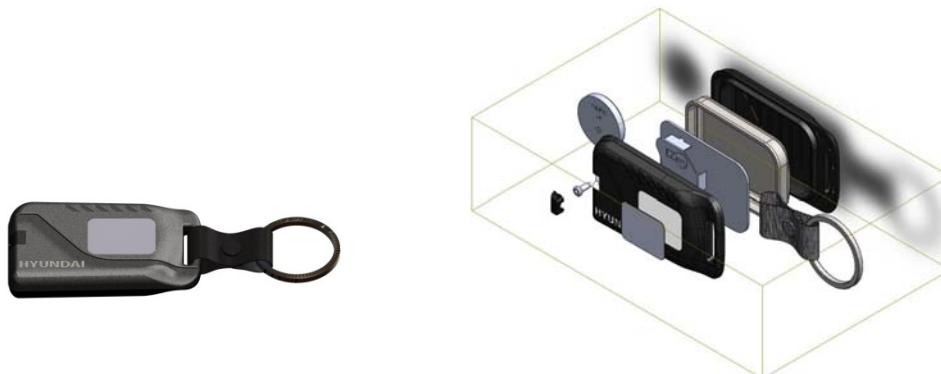
This document is specifically-written manual for receiver and transmitter (SMART KEY TAG) of wireless communication, which is to confirm user identifications under engine-start limiting function in heavy equipments.

SMART KEY TAG is defined as following: it receives signals with RFID 125 KHz and wakes up. After then, it transmits password-secured information to SMART KEY READER by using 2.4 GHz Zigbee wireless signals..

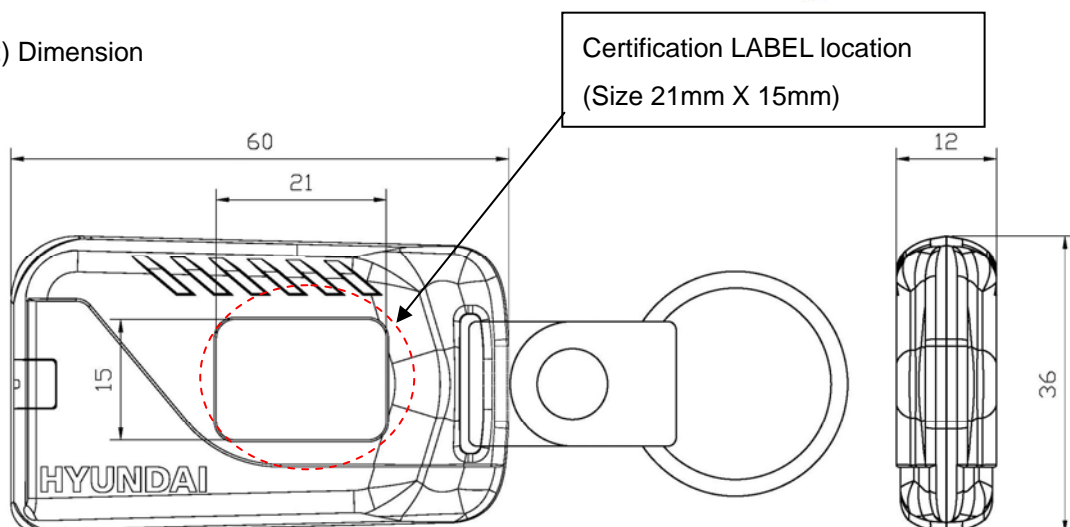
 <b>WARNNIG</b>
<b>Exchanging batteries in incorrect way, It may cause explosion</b> <b>Discard used batteries according to manufacturer's instructions</b>


## 2. Product Image

### 1) External Appearance

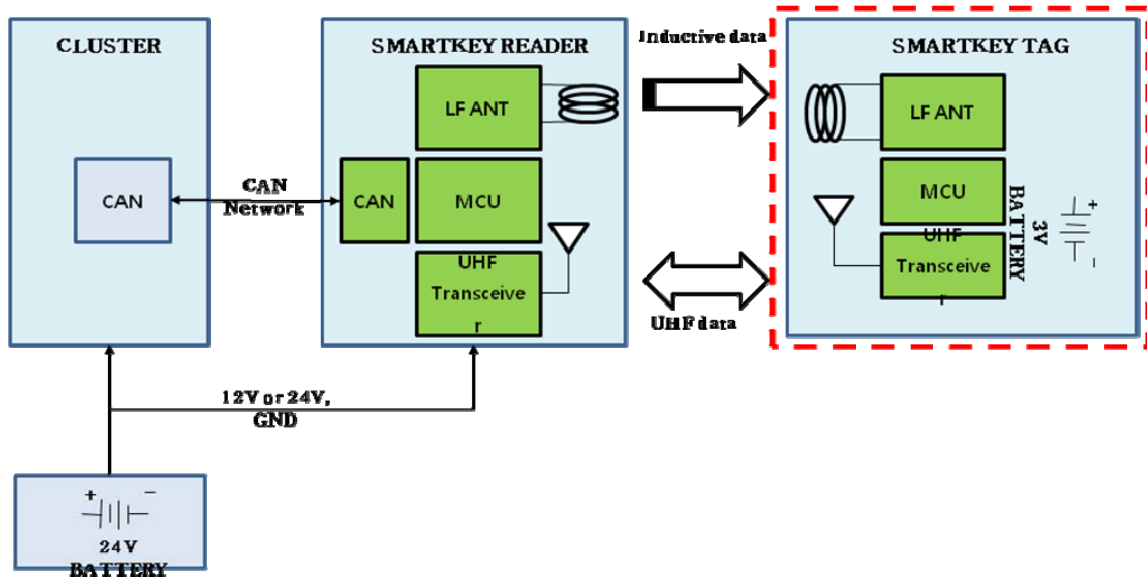


### 2) Dimension



	Name of document(문서명) <b>Engineering ■ Report □ Notice</b>	Version(이력)	Page <b>4 / 6</b>
	Subject(제목) <b>A232 User 's Manual</b>	Reg. No(문서번호) <b>DR – A232</b>	

### 3. Block Diagram



### 4. Specification

#### 4.1. Operating Specification


- Must wake up the remote control by providing electricity with RFID 125 KHz.
- Must be operating with CR2032 battery.
- Must be able to transfer password-secured signals.
- Must be able to use all 16 channels with Zigbee band of 2405 to 2480MHz.

#### 4.2. Power Specification

- 3 V d.c. (CR 2032 Lithium Battery)
- Notice : Inserting opposite polarity of battery may cause explosion or damage to product  
(Please match battery polarity with battery holder)

#### 4.3. General Specification

- Storage Temperature: -20℃ ~ 70℃
- Operating Temperature: -10℃ ~ 60℃
- Water-Proof Specification: IP54 (Living Water-Proof)
- Material of Device: PC (Flame Class: V2, Manufacturer : SABIC Innovative Plastics)

	Name of document(문서명) <b>Engineering <input checked="" type="checkbox"/> Report <input type="checkbox"/> Notice</b>	Version(이력)	Page <b>5 / 6</b>
	Subject(제목) <b>A232 User 's Manual</b>	Reg. No(문서번호) <b>DR - A232</b>	

- . PCB material

object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity <sup>1)</sup>
SMK TAG B/D PCB	WOOMYUNG ELEC CO	SKD	V-0 ; 105 °C	UL 796	UL

#### 4.4. RF Specification

	Item	Specification
<b>Wireless Data Communication System</b>	<b>Operating Frequency</b>	2405 ~ 2480MHz (16 Channals)
	<b>RF Power</b>	Under 10mW
	<b>Modulation Method</b>	QPSK
	<b>Tested Temperature</b>	-20 ~ 50 °C

### FCC Compliance Statement

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

To comply with RF exposure compliance requirements, the antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

