

# **KYUNGWOO SMK-HXV Reader User Manual**

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#### SMK-HXV Reader User' Manual

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Prepared	Reviewed	Approved
Park Jeguk		

#### **Revision History**

Rev.	Date	Driscription	Remark
1	2020.02.11	First Release	Park Jeguk

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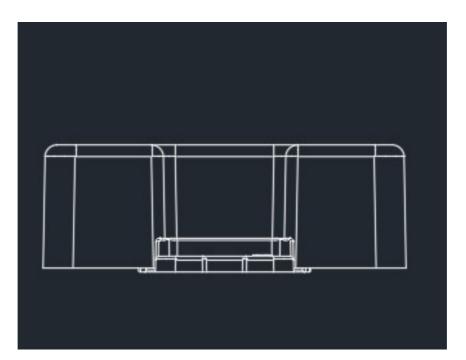
### **Synopsis**

This document is specifically-written manual for SMK Reader which is receiver and transmitter of wireless communication, which is to confirm user identifications under engine-start limiting function in heavy equipments. SMK Reader is defined as followings; SMK Reader transmits a signal pattern by RFID 125 KHz in order to wake up Chipkey/Flipkey Tag. And then SMK Reader communicates with Chipkey/Flipkey Tag by 433 MHz wireless signal. SMK Reader decodes password-secured signals and transfer identification information to certification device which has a function of engine-start limiting, such as Cluster, MCU or ECU, with using CAN protocol

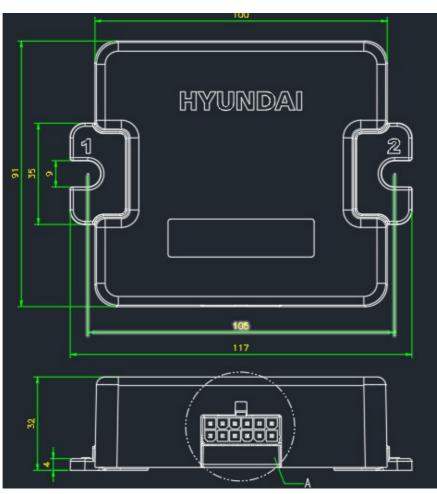
### **Product Image**

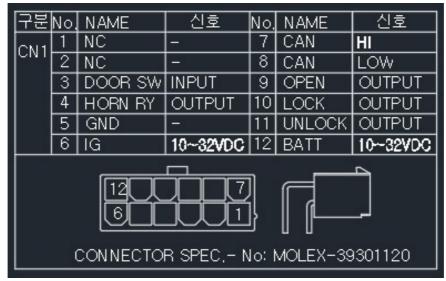
#### 1. External Appearance





### 2. Dimension

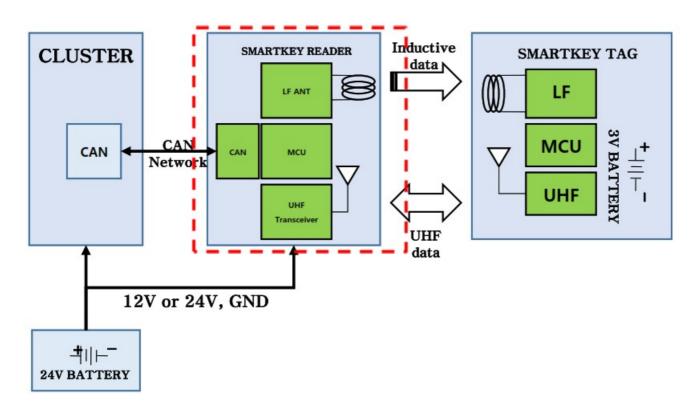




#### 3. Certification LABEL location



### **Block Diagram**



### **Specification**

### 1. Operating Specification

- Must transmit a signal of RFID 125 KHz as a wake up pattern signal.
- Must be activated from 12 Vdc/24 Vdc external voltage supply.

- Must be able to analyze the password-secured signal.
- Must be able to use Single channels with band of 433MHz.

#### 2. Power Specification

• Rated Voltage: 12V —— (Max 50mA) / 24V (Max 30mA) both available

3. General Specification

Storage Temperature: -40°C ~ 85°C
Operating Temperature: -20°C ~ 50°C

• Water-Proof Specification: IP00

• Communication with equipment: CAN2.0 250Kbps/500Kbps

(\*It is recommended to use twist shield cable and should be connected through a short distance as possible.)

• Material of Device: PC (Substance: 3025N1, Flame Class: V0, Manufacturer: SAMYANG)

#### PCB Material

object/part No.	manufacturer/ trademark	type/model	technical d ata	UL No.	mark(s) of conformity 1)
SMK READER B/D PC B	JM ELECTRONICS CO LTD	D	V-0 ; 105 °	E11765 5	JM

### 4. RF Specification Item

Item		Specification	
Wireless Data Communicati on System	Frequency	433MHz (Single Channels)	
	RF Power	Under 1 mW	
	Modulation Method	GFSK	
	Tested Temperature	-20 - +50"C	
	Frequency	125KHz (Single Channel)	
Magnetic Induction System	RF Power	Under 105 d131.1v/m 0 3 meter	
	Modulation Method	ASK	

### 5. Product label Explanation of graphic symbols used

Symbol	Description
	Korea Certification Marking
CE	Communaute Europeenne Marking
	Electrical waste and electronics equipment
F©	Federal Communication Commision Marking
	Direct current

#### Postal address:

Kyungwoo Systech, Inc. Office: +82-2-985-8085 #401, Daeryung Post Tower 5, 68, Digital-ro 9, Geumcheon-gu, Seoul, South Korea E-mail: <a href="webmaster@kyungwoo.com">webmaster@kyungwoo.com</a>

#### **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.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### **RED Compliance Statement**

This product is CE marked according to the provision of the RED (2014/53/EU). Hereby Kyungwoo Systech, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU

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**Documents / Resources** 



## KYUNGWOO SMK-HXV Reader [pdf] User Manual

SMK-HXV-10, SMKHXV10, ZE8-SMK-HXV-10, ZE8SMKHXV10, SMK-HXV Reader, SMK-HXV, Reader

### References



Manuals+,