



Truck Type Car Alarm System Specs

 SGC Technologies Inc.

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1. Introduction

- ❑ This Specification is for Truck Type Car Security Alarm System.
- ❑ This Product consists of Remocon, Main Set, Sensor, Dummy LED and Siren and there is no need of adhesion work.
- ❑ The Sensor Part is equipped with the air pressure sensor sensing shock and PIR Sensor detecting motion of the human body. In case of sensing something wrong of the car, it sends signals to Remocon by using specified low power radio stations.
- ❑ Remocon advises the something wrong of the car received from the sensor through Vibration and Sound LCD and makes warning alarm by using the Siren of the Main Set.
- ❑ The Remocon and Main Set of this System apply correspondingly to ARIB STD-T67, Specified Low Power Radio Stations for Telemeter and Wireless Equipment for Data Transmitting.



2. Composition of Product

No.	Item	Quantity	Note
1	MAIN SET	1	Including Nickel-Hydrogen Battery
2	REMOCON	1	Including Coin Battery
3	ATTACHED PARTS		
	1) ADAPTER FOR REMOCON CHARGE	1	
	2) CIGAR-JACK FOR MAIN SET CHARGE	1	Including Huse
	3) CLIP FOR ATTACHMENT ON SUN VISOR	1	
	4) DRIVER FOR BATTERY REPLACEMENT	1	
	5) MANUAL	1	
	6) GIFT BOX	1	Including Blister

3. Electrical Performance Specs



3.1 Power Supply

PARTS		ITEM	SPECS	UNIT	NOTE
REMOCON	POWER SUPPLY	Rated Voltage	3.7	V	
		Rated Current	380	mAh	
		Battery Type	Li-Polimer	1Cell	
	BATTERY LIFE	Charge Number	400(about)	Time	
		Usage Time	7(about)	Day	1Day 8 Times Usage (Full Charge)
		Charge Hour	2(about)	Hour	1Hour 80%Charge, 1Hour Full Charge
MAIN SET	POWER SUPPLY	Rated Voltage	DC3.6	V	Using Car Battery, DC12V Available
		Rated Current	1500	mA	Supply from Main Set
	BATTERY LIFE	Battery Type	Ni-H		AA TYPE 1500mA X 3 Series
		Battery Life	400(about)		
		Usage Time	7(about)	Day	1Day 8 Times Usage (Full Charge)
		Charge Time	2(about)	Hour	1Hour 80%Charge, 1Hour Full Charge
		Output Sound Pressure	90	dB	
	SENSOR	High Sensitivity			Digital Method
		Motion Detection			Digital Method



3. Electrical Performance Specs (Continue)

3.2 Specified Low Power Wireless Part

- This Product is used for 2-way data communication from Main Set to Remocon, from Remocon to Main Set.
- It applies correspondingly to ARIB STD-67, Specified Low Power Radio Stations for Telemeter and Wireless Equipment for Data Transmitting.

PARTS	ITEM	SPECS	UNIT	NOTE
TELEC REGULATION	Frequency Range	429.8125~429.925	MHz	
	Channel Number and Distance	12.5	KHz	9-CHANNEL
	Frequency Variation	4	ppm	
	Occupied Band Width	8.5	KHz	
	Spurious Emission	2.5	uW	
	RF Power	10	mW	Variation +20% -50%
	Adjacent Channel Power	-40 Below	dB	
	Communication Mode	Half-Duplexer		
ANTENNA	Remocon	Helical		
	Main Set	Helical		
RADIO WAVE DISTANCE RANGE	Distance on Field	1~2	Km	
	Distance in City	200~500	m	



3. Electrical Performance Specs (Continue)

3.3 Operating Conditions

PART	ITEM	SPECS	UNIT	NOTE
REMOCON	Operating Temp.	-0 ~ +40	℃	
	Operating Humidity	70	%RH	
	Storage Temp.	-10 ~ +50	℃	Except Battery
	Storage Humidity	70	%RH	
MAIN SET SENSOR PART DUMMY LED	Operating Temp.	-20 ~ +80	℃	
	Operating Humidity	70	%RH	
	Storage Temp.	-40 ~ +85	℃	
	Storage Humidity	70	%RH	

4. Function and Operation Specs



4.1 Function of Remocon

4.1.1 Setting Power Status

- (1) If you press the power button for 2 seconds in Power OFF Status, it becomes Power On status after the buzzer sound.
- (2) If you press the power button for 2 seconds in Power On Status, it becomes Power OFF status.

4.1.2 Setting Hand-operated Arming Status

- (1) If you press the Hand-operated Arming button for 1-1.5 second, it sends the signal of Hand-operated arming to Main Set after the buzzer sound.

4.1.3 Setting Hand-operated Disarming Status

- (1) If you press the Hand-operated disarming button for 1-1.5 second, it sends the signal of Hand-operated disarming to Main Set after the buzzer sound.

4.1.4 Setting Auto Arming Status

- (1) If you press the Hand-operated arming button for 2.5 seconds, it sends the signal of Auto arming to Main Set after the buzzer sound.
- (2) If you press the Hand-operated arming button for 2.5 seconds in Auto Arming Status, it sends the signal of Auto disarming to Main Set after the buzzer sound.

4.1.5 Setting Alarm Mode

- (1) If you press the Mode Change button for 2 seconds, Remocon Alarm Mode is changed to Sound, Vibration, Sound+Vibration.

4.1.6 Setting SOS

- (1) If you press the SOS button for 3 seconds, it sends the SOS signal to Main Set after the buzzer sound.

4.1.7 Setting Backlight

- (1) If you press the Backlight button for 2 seconds, the Backlight turns on.

4. Function and Operation Specs



4.1 Function of Remocon (Continue)

4.1.8 The Battery Power Warning Function

- (1) If the Battery Power is reduced below some amount, it indicates the low power status. And the Battery is insufficient to run the Remocon, the Power becomes OFF Status.
- (2) 1 Time of the warning sound for low Battery Power, 2 times of the warning sound before one hour of Power OFF.

4.1.9 Alarm Function for Warning Signal

- (1) In case of receiving warning signal from Main Set, it indicates the warning signal on LCD and makes Sound and Vibration for alarm.

4.2 Function of Main Set

4.2.1 Function of Setting Sensitivity of Sensor

You can adjust the sensitivity of Sensor to High or Low by the setting button in Main Set.

4.2.2 Auto Warning Function

In case of setting Auto Warning Function Status, it operates Auto Warning Function based on the receiving sensitivity of wireless signals from Remocon.

4.2.3 Function of Sending Alarm

- (1) In case of occurrence of alarm signals, it sends the alarm signals to Remocon.
- (2) In case of occurrence of alarm signals, it operates PIEZO(Making Alarm Sound).
- (3) In case of occurrence of alarm signals, it operates LED.
- (4) In status of occurrence of alarm signals, it disarms the Alarm Status by receiving the signals of the Hand-operated disarming.

4.2.4 Auto Re-operating Function

In status of occurrence of alarm, it automatically return to the Detecting Status, after keeping the alarm status for some time.

5. Structure, Type, External Appearances Specs



PART	ITEM	SPECS	NOTE
REMOCON	External Size	Length ? mm * Width ? mm * Height ? mm Below	
	Weight	?	Including Battery
	External Color, Coating	?	
	Marking	?	Logo
	Seal of Approval	?	Seal Disposition
	Operating Button	Good Performance and High Sensitivity	
	Antenna	Internal Installation	
MAIN SET	External Size	Length ? mm * Width ? mm * Height ? mm Below	
	Weight	?	
	External Color, Coating	?	
	Marking	?	Logo
	Installation	It should be attached on the Sun Visor of passenger seat.	
	Seal of Approval	?	Seal Disposition
	Antenna	Helical Antenna available for angle of 360 degrees	

5. Structure, Type, External Appearances Specs (Continue)



PART	ITEM	SPECS	NOTE
PACKAGE	PACKING TYPE	1	
	PACKING PRINTING	1 KIND OF PRINT	Buyer Request
	GIFT BOX PRINTING	1 KIND OF PRINT	Buyer Request
OTHER	MANUAL	PRINT	Buyer Request
	SILK PRINT	MANUSCRIPT	Buyer Request

6. Product Safety and Suitability Certifications



6.1 Safety

- (1) The case should be free of sharp burrs for safety.**
- (2) It should be without outbreak of fire by reverse electric pressure on power of Main Set.**

6.2 Suitability Certifications

- (1) At engineering sample stage, it has been inspected for Suitability Certifications.**
- (2) The Suitability Certifications should meet the reliability items of TELEC regulation.**



7. Reliability Test Items

No	Test Item	Testing Condition		Method of confirming evaluation	Comment
		12V Rating	24V Rating		
1	Lowest operation voltage test	9V	21V	Thing without function and operation problem	
2	Use voltage range tests	9V ~ 15V	21V ~ 27V	Thing without function, operation, display, characteristic, and circuit problem	
3	Reverse connection of power supply	-13V, 1minute	-25V, 1minute	Thing which does not include ignition, smoking, smell, and heat, etc. It must be regular connection, and there be function, operation, display, characteristic, circuit, externals or neither discoloration nor damage	
4	Over voltage test	24V, 1minute	36V, 1minute		
5	Low temperature operation test	-30℃, 72hours		Thing without function and operation problem	-20℃, 72hours
6	High temperature operation test	80℃, 120hours			60℃, 72hours
7	Heat cycles test	30cycles		Thing main body function, operation, display, characteristic, circuit, externals, discoloration, and damage are confirmed by making to normal-temperature of taking out in every tem-cycle passage and without problem	30cycles
		Cycle : 80℃/30minute, -30℃/30minute			Cycle : 60℃/30minute, -20℃/30minute
8	Low temperature storage test	-40℃, 72hour		Thing in taking out normal temperature making without main body function, operation, display, characteristic, circuit, externals, discoloration, and damage after test ends	-30℃, 72hour
9	High temperature storage test	85℃, 96hour			70℃, 72hour



7. Reliability Test Items

No	Test Item	Testing Condition		Method of confirming evaluation	Comment
		12V Rating	24V Rating		
10	Vibration test	Frequency : 5 ~ 200Hz		1. Twice or less of measurement of vibration point the angle acceleration in 0.5G	5~100Hz
		Acceleration : 3G			1.5G
		Top / Bottom : 4H		2. Thing without main body function, operation, display, characteristic, abnormal sound, circuit, and damage after test ends	2H
		Left / Right : 2H			1H
		Forth / Back : 2H			1H
11	Fall test	Height : 0.5M		Thing without main body function, operation, display, characteristic, abnormal sound, circuit and damage after test ends	



8. DESIGN

8.1 REMOCON





8. DESIGN

8.2 MAIN



8. DESIGN

8.3 SENSOR





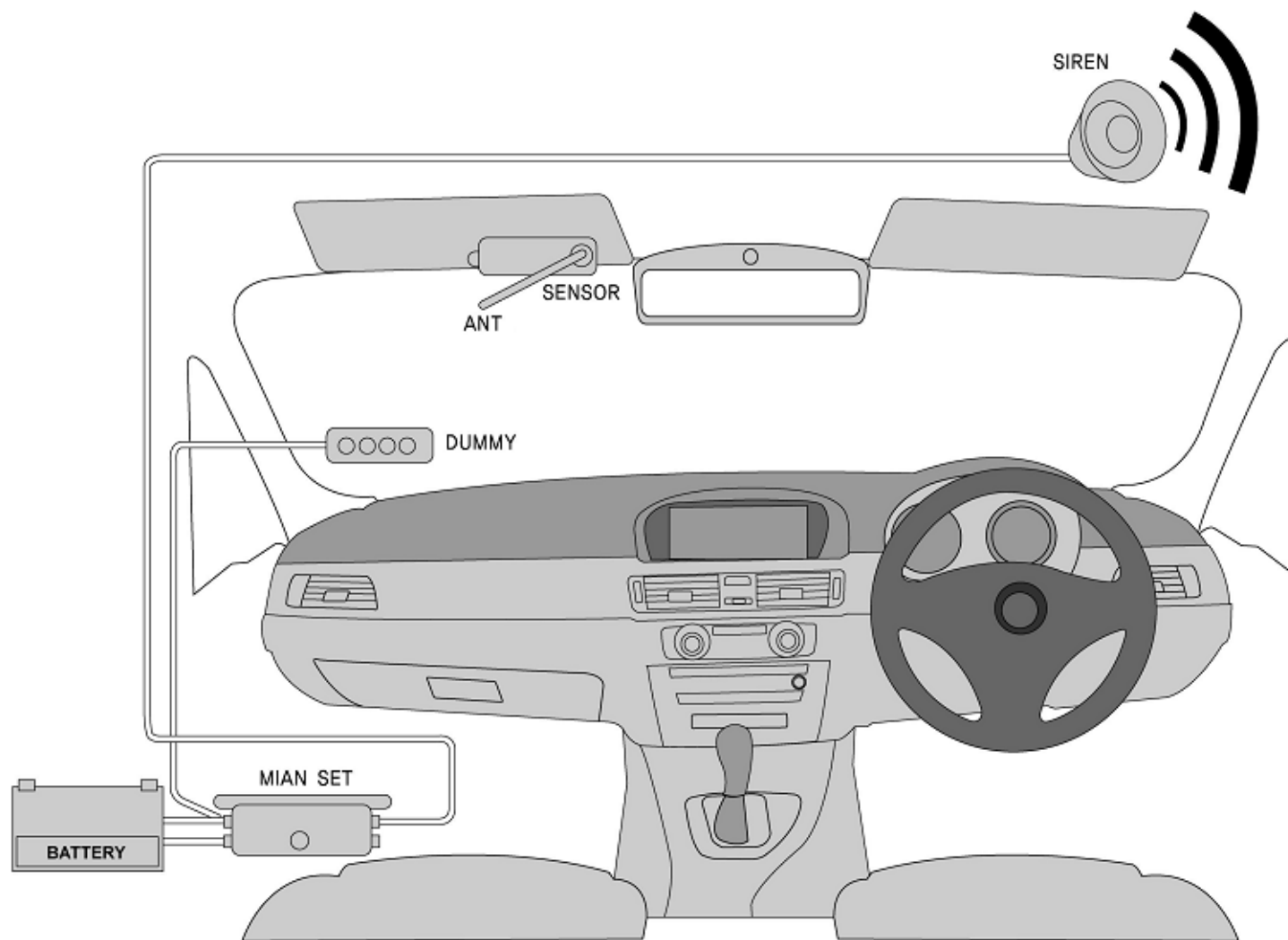
8. DESIGN

8.4 DUMMY





9. Composition Drawing for Installation





10. Product Concept

LOW COST

Be highly competitive

HIGH QUALITY

Be extremely reliable



SMALL SIZE

Be widely applicable



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