

VEHICLE ALARM SYSTEM 'GN7'

Installation manual.

1. THE SET.

- a) system unit with connecting wires;
- b) 2 remote controls;
- c) engine bonnet switch;
- d) user and installation manual;
- e) siren (optional).

2. TECHNICAL SPECIFICATIONS:

✓ operating temperature	- 40° C to +85° C;
✓ rated supply voltage	9 - 15 V DC;
✓ average current consumption without inbuilt sensor	14 mA (U=12V);
✓ average current consumption with inbuilt sensor	20 mA (U=12V);
✓ siren drive current	2 A;
✓ cut - off circuit current	25 A;
✓ average distance of remote control	5 - 10 m.

3. INSTALLATION OF THE ALARM SYSTEM.

Vehicle alarm system 'GN7' is designed for all types of vehicles (except cabriolets) with petrol or diesel engines, and 12V batteries with negative pole connected to "ground" (vehicle body).

Vehicle alarm system must be installed inside the vehicle passenger compartment in difficult to access area in accordance with manufacturer's supplied wiring directions.





Manufacturer of the alarm system recommends:

- a) select a qualified installer of vehicle alarm systems;
- b) mount system unit in place free from penetration of moisture and other corrosion-causing materials, as far as possible from heating elements in the passenger compartment and sources of electromagnetic interference (vehicle computer, fans, blocks of relays);
- c) avoid mounting system unit directly onto metal parts of vehicle to prevent accumulation of condensate in the system unit;
- d) mount system unit in a way, wire connectors are going from the bottom side of the unit;
- e) avoid placing wires next to moving or hot parts of vehicle;
- f) avoid overload of alarm system circuits:










✓ cut - off circuit current Δ	25 A
✓ unlock pulse current $\textcircled{7}$	0,13 A
✓ lock pulse current $\textcircled{6}$	0,13 A
✓ cut - off / optional output current $\textcircled{4}$	0,13 A
✓ siren drive current $\textcircled{1}$	2 A
✓ right direction indicator control current $\textcircled{5}$	7 A
✓ left direction indicator control current $\textcircled{2}$	7 A

4. ALARM SYSTEM SET UP.

'GN7' features up to 92 system settings. Due to these settings 'GN7' can be adjusted to some particular vehicle or relevant customer requirements. 'GN7' features are set using PIN (personal identification number), FN (feature number) and SN (setting number) codes. Actions to be performed in the following sequence:


- a) open vehicle doors and leave it opened (there is no need to open doors on entering PIN code by alternative way – see user manual 7.3);
- b) enter PIN code (see user manual 7.2 or 7.3), close the doors;
- c) wait for approximately 12 seconds (intended for remote control learning), till system LED stops emitting triple flashes and starts flashing frequently;
- d) within 8 minutes after the PIN code entry, in the same way as PIN (see user manual 7.2), enter the FN number of the feature you want to set. Short flash of direction indicators indicates correct FN entry. No flash of direction indicators, means either incorrect FN entry or assigned 8 minutes elapsed;
- e) if FN code has not been entered due to elapsed time, press  button, enter PIN code, wait 12 seconds and enter FN once again;
- f) if FN code has not been entered due an error, turn off the ignition, wait until system LED starts flashing frequently and re-enter the FN code. After correct entry of the FN code, the system extends control time for 8 minutes awaiting a remote control button  press. Within this control time check current SN settings or enter a new one. The system extends control time to 8 minutes again. This control time is extending every time after checking or entering SN;
- g) check SN setting only with the ignition OFF by pressing remote control button  once and counting short flashes of direction indicators, which equal to SN value;
- h) if SN is incorrect, to change it: turn the ignition ON, press button  with 1 second intervals as many times as the required number of SN. Wait for 3 seconds till short siren beep and flash of direction indicators. New setting has been entered into memory therefore turn the ignition OFF and check SN setting as described in article 4g.

5. SUMMARY OF ALARM SYSTEM SETTING SEQUENCE.

CONDITION	ACTION	CONTROL TIME	REMOTE CONTROL	DIRECTION INDICATORS	SIREN	SYSTEM LED
Doors is opened /	PIN ENTRY	–	–	–	–	Double flashing / long flashes
PIN is entered	REMOTE CONTROL PROGRAMMING	12 seconds, extended for 12 seconds after each remote control programming	Press simultaneously:  +  +  or  + 	–	–	Triple flashing, 1 second flash after remote control pre-programming
12 seconds after PIN entry or a remote control learning	FN ENTRY	8 minutes	–	Indicates correct FN entry	–	Double flashing
FN entered, ignition OFF	SN CHECK	8 minutes	Short press of 	Indicates SN value	–	Frequent flashing
FN checked, ignition ON	SN CHANGE	8 minutes	Short presses of 	Indicates SN change in 3 seconds	Indicates SN change in 3 seconds	Double flashing
SN checked or entered	FOLLOWING FN ENTRY	8 minutes	–	Indicates correct FN entry	–	Double flashing
Following FN entered, ignition ON	SN CHANGE	8 minutes	Short press of 	Indicates SN change in 3 seconds	Indicates SN change in 3 seconds	Double flashing
END of settings	FN ENTRY remote control	8 minutes / –	– / short press of 	Indicates correct FN entry /	–	Double flashing / –

6. NOTIFICATION ABOUT OPEN SYSTEM INPUTS, DATA ABOUT LAST TRIGGERS.


If system was triggered in armed state, direction indicators will flash four times when disarming the system. 'GN7' stores the data about last three triggers. This function enables to ascertain the causes of the false alarm. There are two ways to do that:

1. System LED indicates the cause of the last trigger. After disarming turn the ignition on and count the LED flashes.
2. Direction indicators indicate the causes of the last three triggers. Set FN = 71, 72 or 73, press button  and count flashes of direction indicators while ignition is OFF.

Meaning of system LED/direction indicators flashes:

- 1 flash indicates triggering of a sensor (sensors);
- 2 flashes indicate door opening;
- 3 flashes indicate engine bonnet opening;
- 4 flashes indicate luggage compartment opening;
- 5 flashes indicate turning the ignition ON.



7. CERTIFICATE OF INSTALLATION.

I, undersigned qualified installer _____ (Name, Surname) _____ certify that installation of the below described vehicle alarm system has been carried out by myself pursuant to installation manual supplied by the manufacturer of the system.	
Vehicle description:	
Manufacturer and model: _____	
Serial number: _____	Registration number: _____
Description of vehicle alarm system:	
Type: 'GN7'. Model: _____	Official approval number: 97RA-01 04829
Installation date: _____	
Installing company: _____	
Installer: _____ (Position, signature)	

After installation of the alarm system installer must fill in CERTIFICATE OF INSTALLATION! It is recommended to mark selected settings in the TABLE OF ALARM SYSTEM SETTINGS (underline SN).







8. SUMMARY OF ALARM SYSTEM SETTINGS.

8.1. MARKED FIELD MEANS:

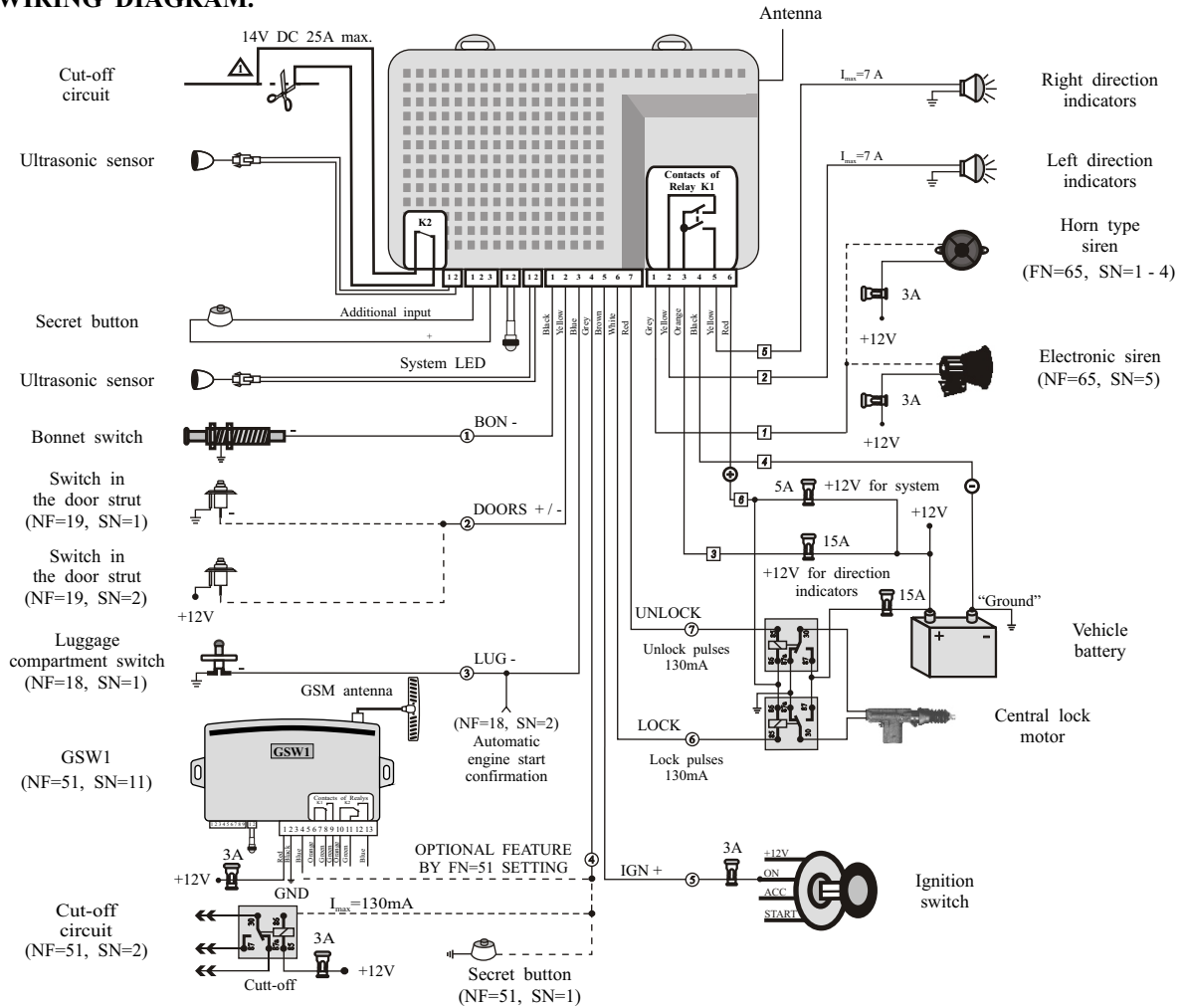
- EU** – the setting meets requirements of EU Directives. Selection of settings not meeting EU requirements is possible if vehicle is operated in non EU state;
- GN7_C** – function is in appropriate software version;
-  – factory setting;
 -  – pre-programmed setting if differs from factory setting.

3.2. TABLE OF ALARM SYSTEM SETTINGS.

	FEATURE	EU	GN7.X_C	GN7.A_A	GN7.X_L
FN=11	Feature: END OF FN SETTINGS.	✓	✓	✓	✓
FN=15	Feature: ALARM SYSTEM CONTROL USING 'GSW1'.				
SN=1	Alarm system control using 'GSW1' is OFF.	✓	⊗	⊗	⊗
SN=2	Alarm system control using 'GSW1' is ON. After learning first remote control the system automatically learns the connected 'GSW1' as a remote control. System ignores the commands from not learned 'GSW1'.	✓	✓	✓	✓
FN=17	Feature: ADDITIONAL INPUT PURPOSE.				
SN=1	Input is used for secret button.	✓		⊗	⊗
SN=2	Input is used for direction indicators status test.	✓			✓
FN=18	Feature: INPUT 'TRUNK' PURPOSE.				
SN=1	Input is connected to luggage compartment switch.	✓	⊗	⊗	⊗
SN=2	Engine start confirmation. When pulse (0-2 V) is active in this input, 'GSW1' will send SMS message confirming the engine start. When pulse (0-2V) is deactivated, SMS message, confirming the engine stop, will be sent. This feature is available if alarm system is equipped with 'GSW1' and special autostart module and feature FN=51 with setting SN=8 or SN=9 is selected.		✓	✓	
FN=19	Feature: 'DOORS' TRIGGER POLARITY.				
SN=1	Doors (-).	✓	⊗	⊗	⊗
SN=2	Doors (+).	✓	✓	✓	✓
FN=22	Feature: ADDITIONAL PROTECTION.				
SN=1	OFF.	✓	⊗	⊗	⊗
SN=2	Inner immobilizer operated by remote . Immobilizer disables the engine after 40 seconds since the ignition is turned off or system is disarmed. Immobilization is turned OFF by pressing remote button . Immobilizer is turned ON or OFF, with ignition ON, by pressing buttons and together, holding them down till short siren beep.	✓	✓	✓	✓
SN=3	Inner immobilizer operated by secret button . Immobilizer disables the engine after 40 seconds since the ignition is turned off or at once system is disarmed. Immobilization is turned OFF by pressing secret button. Immobilizer is turned ON or OFF, with ignition ON, by pressing the secret button and buttons and together, holding them down till short siren beep.		✓	✓	✓
SN=4	'Anti-carjack' activated upon ignition turn ON or door opening with ignition ON . 40 second countdown begins, and system follows 'anti-carjack' operation setting (FN=23). 'Anti-carjack' operation or engine immobilization can be cancelled only by pressing the secret button. 'Anti-carjack' feature cannot be turned OFF using remote control.		✓	✓	✓
SN=5	'Anti-carjack' activated upon ignition turn ON . 40 second countdown begins, and system follows 'anti-carjack' operation setting (FN=23). 'Anti-carjack' operation or engine immobilization can be cancelled only by pressing the secret button. 'Anti-carjack' feature cannot be turned OFF using remote control.		✓	✓	✓
SN=6	'Anti-carjack' activated upon ignition turn ON or door opening with ignition ON . 40 second countdown begins, and system follows 'anti-carjack' operation setting (FN=23). 'Anti-carjack' operation or engine immobilization can be cancelled only by pressing the secret button. 'Anti-carjack' feature can be turned OFF / ON with ignition ON by pressing the secret button and afterwards pressing remote control buttons and together and holding them down till short siren beep.		✓	✓	✓
SN=7	'Anti-carjack' triggered upon ignition turn ON . 40 second countdown begins, and system follows 'anti-carjack' operation setting (FN=23). 'Anti-carjack' operation or engine immobilization can be cancelled only by pressing the secret button. 'Anti-carjack' feature can be turned OFF / ON with ignition ON by pressing the secret button and afterwards pressing remote control buttons and together and holding them down till short siren beep.		✓	✓	✓
FN=23	Feature: OPERATION OF 'ANTI-CARJACK'.				
SN=1	When 40 second countdown ends, the system starts the siren, direction indicators start flashing. After ignition is turned OFF the engine is immobilized and the system rearms. If system is armed, cancel of engine immobilization is possible only by: disarming the system and pressing the secret button.		⊗	⊗	⊗
SN=2	When 40 second countdown ends, the system starts the siren, direction indicators start flashing. After 10 seconds the engine is immobilized and the system rearms. If system is armed, cancel of engine immobilization is possible only by: disarming the system and pressing the secret button.		✓	✓	✓
FN=24	Feature: ADDITIONAL PROTECTION ACTIVATION (COUNTDOWN) TIME.				
	Pressing button when engine is turned ON, activation (countdown) time can be set (with 5 second discretion) for additional protection feature, selected on FN=22 setting, (standard activation time is 40 seconds).	✓	40	40	40
FN=31	Feature: PRE-ALARM ZONE OF BUILT-IN SHOCK / TILT SENSOR ADJUSTMENT (AVAILABLE ONLY FOR 'GN7.P', 'GN7.UP', 'GN7.UPS').				
	Sensitivity of pre-alarm zone is increased in steps by pressing button and decreased in steps by pressing button. Number of sensitivity values – 20, step indication – flash of direction indicators, adjustment limit indication – direction indicators is on for long time.	✓	⊗	⊗	⊗
FN=32	Feature: ALARM ZONE OF BUILT-IN SHOCK / TILT SENSOR ADJUSTMENT (AVAILABLE ONLY FOR 'GN7.P', 'GN7.UP', 'GN7.UPS').				
	Sensitivity of alarm zone is increased in steps by pressing button and decreased in steps by pressing button. Number of sensitivity values – 19, step indication – flash of direction indicators, adjustment limit indication – direction indicators is on for long time.	✓	⊗	⊗	⊗
FN=33	Feature: NONE-RESPONSE TIME AFTER ARMING.				
SN=1	None-response time is 5 seconds. Engine bonnet, luggage compartment, door switches and sensors monitoring starts after 5 seconds of alarm arming.	✓	⊗	⊗	⊗
SN=2	None-response time is 45 seconds. Engine bonnet, luggage compartment, door switches and sensors monitoring starts after 45 seconds of alarm arming.	✓	✓	✓	✓
FN=34	Feature: BUILT-IN ULTRASONIC SENSOR ADJUSTMENT (AVAILABLE ONLY FOR 'GN7.U', 'GN7.UP', 'GN7.UPS').				
	Sensitivity of the sensor is increased by pressing the button and decreased by pressing button. Number of sensitivity values – 20, step – indication flash of direction indicators, adjustment limit indication – direction indicators is on for long time.	✓	⊗	⊗	⊗
FN=41	Feature: ARMING WITHOUT A REMOTE CONTROL.				
SN=1	Arming without a remote control function is turned OFF.		⊗	⊗	⊗
SN=2	Arming without a remote control will be turned ON. if secret button is pressed twice with the ignition OFF, door opened and then closed. Central lock is locked. Warning: don't leave the keys and remote inside vehicle!		✓	✓	✓
FN=42	Feature: WARMING - UP THE ENGINE.				
SN=1	Engine warming-up function is turned OFF.		⊗	⊗	⊗
SN=2	System is armed with ignition ON and central lock is locked by pressing secret button twice than pressing remote control button . The system will not respond to shock or volume sensor however in case of door opening, engine bonnet or luggage compartment, the siren starts sounding, direction indicators flashing. Depending on 'Anti-carjack' function settings (FN=23) the engine is immobilized within 10 seconds and the system rearms or immediately after the ignition is turned OFF the engine is immobilized and alarm enabled. Alarm is disabled by pressing button . It is strongly recommended not to use this setting if FN=22, SN=2 or SN=3 are selected.		✓	✓	✓
FN=44	Feature: AUTO-REARM.				
SN=1	Auto-rearm without central locking. The system will be armed automatically if within 45 seconds after disarming vehicle doors, engine bonnet and luggage compartment remain unopened. Central lock is not locked.	✓	⊗	⊗	⊗
SN=2	Auto-rearm with central locking. The system will be armed automatically if within 45 seconds after disarming vehicle doors, engine bonnet and luggage compartment remain unopened. Central lock is locked.	✓	✓	✓	✓
SN=3	Auto-rearm is disabled. Auto-rearm function is not operated after the alarm disarming.	✓	✓	✓	✓
SN=4	If during the preset time (time till 45 seconds, set by-opening-closing the door; actions indication – short beeps of the siren) after disarming, the door are opened and closed, system will be armed automatically. Central lock is not locked.	✓	✓	✓	✓
SN=5	If during the preset time (time till 45 seconds, set by-opening-closing the door; actions indication – short beeps of the siren) after disarming, the door are opened and closed, system will be armed automatically. Central lock is locked.	✓	✓	✓	✓
FN=51	Feature: PURPOSE OF OPTIONAL OUTPUT.				
SN=1	Optional output is used as input for secret button.		⊗	⊗	⊗
SN=2	Additional immobilization. Optional output is used to control a relay (with normally open contacts) cutting off starter operating circuit.		✓	✓	✓
SN=3	Engine bonnet release impulse. Pressing remote control button for more than 2 seconds generates negative polarity impulse in optional output equal to the time of button pressing.	✓	✓	✓	✓
SN=4	40 second negative polarity impulse generated upon arming and designed for closing of power-operated windows and sunroof.	✓	✓	✓	✓
SN=5	If any door, engine bonnet or luggage compartment is opened with alarm enabled, inner zone of the sensor is triggered generating impulse for pager message.	✓	✓	✓	✓

FEATURE		EU	GN7.X_C	GN7.X_A	GN7.X_L
SN=6	If any door, engine bonnet or luggage compartment is opened with alarm enabled, inner or outer zone of the sensor is triggered generating impulse for pager message.	✓	✓	✓	✓
SN=7	Luggage compartment control impulse. Pressing the remote control button  for more than 2 seconds generates negative polarity impulse, with timescale of duration of pressing the button plus 1.5 seconds, in optional output when closing the luggage compartment the system will return to arming by FN=33.	✓	✓	✓	✓
SN=8	Automatic engine start pulse. Pressing the button  of the remote control for longer than 2 seconds, the negative polarity pulse will be generated on optional output with a timescale equal to the duration of pressing the button plus 1.5 seconds, that is dedicated for the automatic engine start module. The module can turn the ignition on after 8 seconds of the beginning of this pulse or after turning the ignition off. The doors, the engine bonnet and the luggage compartment continue to be armed.		✓	✓	
SN=9	Periodical automatic engine start pulses. Pressing the button  of the remote control for longer than 2 seconds, the negative polarity pulses will be generated on optional output (the duration of the first pulse equal to the duration of pressing the button plus 1.5 seconds, and 1.5 seconds for other pulses, period defined by FN=59), that is dedicated for the automatic engine start module. The module can turn the ignition on after 8 seconds of the beginning of the pulse or after turning the ignition off. The doors, the engine bonnet and the luggage compartment continue to be armed.		✓	✓	
SN=10	Optional output generates pulses which durations are programmed by computer (pulses are generated after system arming).	✓	✓	✓	✓
SN=11	Optional output is used for connection with GSW.	✓	✓	✓	✓
FN=55	Feature: CENTRAL LOCK CONTROL.				
SN=1	Central lock is controlled by 0.5 second impulse.	✓	⊗	⊗	⊗
SN=2	Central lock is controlled by 4.5 second impulse.	✓	✓	✓	✓
SN=3	Central lock is controlled by 0.8 second impulse.	✓	✓	✓	✓
SN=4	Central lock is controlled by 3.6 second impulse.	✓	✓	✓	✓
SN=5	Double impulse. Central lock is controlled by two 0.8 second impulses (with 0.8 second pause) generated by arming and disarming (turning ignition ON / OFF generates single 0.8 second pulse).	✓	✓	✓	✓
SN=6	Double 0.8 second impulses with 0.8 second pause to lock, single 0.8 second impulse to unlock (turning ignition ON / OFF generates single 0.8 second pulse).	✓	✓	✓	✓
SN=7	Single 0.8 second impulse to lock, double 0.8 seconds impulses with 0.8 second pause to unlock (turning ignition ON / OFF generates single 0.8 second pulse).	✓	✓	✓	✓
SN=8	0.8 and 15 seconds impulses with 0.8 second pause to lock, double 0.8 second impulses with 0.8 second pause to unlock (turning ignition ON / OFF generates single 0.8 second impulse).	✓	✓	✓	✓
SN=9	0.8 and 40 seconds impulses with 0.8 second pause to lock, double 0.8 second impulses with 0.8 second pause to unlock (turning ignition ON / OFF generates single 0.8 second impulse).	✓	✓	✓	✓
SN=10	Single 15 seconds impulse to lock, and single 0.8 seconds impulse to unlock (turning ignition ON / OFF generates single 0.8 second impulse).	✓	✓	✓	✓
SN=11	Single 40 seconds impulse to lock, and single 0.8 seconds impulse to unlock (turning ignition ON / OFF generates single 0.8 second impulse).	✓	✓	✓	✓
SN=12	Central lock controlled by the set of two impulses is preprogrammed by computer.	✓	✓	✓	✓
FN=56	Feature: ACTION OF THE CENTRAL LOCK WHEN THE DOORS ARE OPEN.				
SN=1	The central lock is locked even when not all the doors are closed.	✓	⊗	⊗	⊗
SN=2	The central lock is locked only when all the doors are closed.	✓	✓	✓	✓
FN=57	Feature: ACTION OF THE CENTRAL LOCK ON TURNING THE IGNITION OFF.				
SN=1	On turning the ignition ON the central lock is locked, on turning the ignition OFF the central lock is unlocked.	✓	⊗	⊗	⊗
SN=2	The central lock does not react on turning the ignition OFF.	✓	✓	✓	✓
FN=58	Feature: ACTION OF CENTRAL LOCK ON DISARMING.				
SN=1	After disarming the central lock is unlocked immediately.	✓	⊗	⊗	⊗
SN=2	After disarming the central lock is unlocked after the pressing the button  twice in 3 seconds.	✓	✓	✓	✓
FN=59	Feature: PERIOD OF PULSES OF AUTOMATIC ENGINE START.				
	Pressing  button with the ignition ON repetition period of impulses for automatic engine starting module is set (standard 30 minutes).		30	30	
FN=65	Feature: TYPE OF SIREN AND ARMING / DISARMING CONFIRMATION SIGNAL LEVEL.				
SN=1	Horn type siren (speaker with coil impedance at least 4 Ohm). Maximum sound level.		⊗	⊗	⊗
SN=2	Horn type siren (speaker with coil impedance at least 4 Ohm). Sound level reduced 2 times		✓	✓	✓
SN=3	Horn type siren (speaker with coil impedance at least 4 Ohm). Sound level reduced 4 times.		✓	✓	✓
SN=4	Horn type siren (speaker with coil impedance at least 4 Ohm). Sound level reduced 8 times.		✓	✓	✓
SN=5	Electronic siren controlled by voltage, with inner modulation.		✓	✓	✓
FN=66	Feature: SIREN SIGNAL ON ARMING OR DISARMING.				
SN=1	Silent. Arming and disarming with no siren signal.	✓	⊗	⊗	⊗
SN=2	Loud/silent. Short press of remote buttons arms/disarms the system with sound signals, while long press (1 second) without sound signals.		✓	✓	✓
SN=3	Silent/loud. Short press of remote buttons arms/disarms the system without sound signals, while long press (1 second) with sound signals.		✓	✓	✓
SN=4	Loud/silent. Acting as NN=2, but if the alarm system has alarmed in armed state, disarming with the sound, 4 sound beeps are generated.		✓	✓	✓
SN=5	Silent/loud. Acting as NN=3, but if the alarm system has alarmed in armed state, disarming with the sound, 4 sound beeps are generated.		✓	✓	✓
FN=67	Feature: WARNING MELODY ON TRIGGERING OF THE OUTER ZONE OF THE SENSOR.				
SN=1	Melody 1 (using the horn type siren).	✓	⊗	⊗	⊗
SN=2	Melody 2 (using the horn type siren).	✓	✓	✓	✓
SN=3	Melody 3 (using the horn type siren).	✓	✓	✓	✓
SN=4	Melody 4 (using the horn type siren).	✓	✓	✓	✓
FN=71	Feature: INFORMATION ABOUT THE CAUSES OF THREE LAST TRIGGERS.				
FN=72	Entering FN=71, FN=72 or FN=73 and pressing remote button  with the ignition turned OFF, direction indicators indicate the causes of the last three alarm	✓	✓	✓	✓
FN=73	triggers (FN=71 – last trigger cause, FN=72 – last but one trigger cause, FN=73 – earliest (first) trigger).				
FN=75	Feature: BUILT-IN ULTRASONIC SENSOR (AVAILABLE ONLY FOR 'GN7.U', 'GN7.UP').				
SN=1	Turned ON.	✓	⊗	⊗	⊗
SN=2	Turned OFF.	✓	✓	✓	✓
FN=76	Feature: BUILT-IN SHOCK / TILT SENSOR (AVAILABLE ONLY FOR 'GN7.P', 'GN7.UP').				
SN=1	KSD sensor in shock and tilt mode.	✓	⊗	⊗	⊗
SN=2	KSD sensor only in tilt mode.	✓	✓	✓	✓
SN=3	KSD sensor only in shock mode.	✓	✓	✓	✓
SN=4	KSD sensor is turned OFF.	✓	✓	✓	✓
FN=77	Feature: EXTERNAL SENSOR.				
SN=1	Single-level sensor.	✓	⊗		
SN=2	Two-level sensor.	✓	✓		
FN=78	Feature: SENSOR SIGNAL TYPE.				
SN=1	Direction indicators and siren on triggering inner or outer zone of the sensor.	✓	⊗	⊗	⊗
SN=2	Direction indicators on triggering outer zone of the sensor. Direction indicators and siren, on triggering inner zone of the sensor.	✓	✓	✓	✓
SN=3	Direction indicators on triggering any sensor zone.	✓	✓	✓	✓
FN=88	Feature: CUSTOMIZING THE PIN CODE.				
SN=1	Restoring factory settings and the default PIN code.	✓	✓	✓	✓
FN=99	Feature: FACTORY SETTINGS.				
SN=1	Restoring factory settings and the default PIN code.	✓	✓	✓	✓

11. 'GN7_A' WIRING DIAGRAM.



12. 'GN7_L' WIRING DIAGRAM.

