

'GN7C' – Alarm System with built-in sensor (s) designed for vehicles with central lock controlled by the Original Remote Key FOB (or Keyless Entry System), a CAN bus and 12V batteries, whose negative pole is connected to the vehicle body. The CAN bus shall be compatible with the Alarm System. Compatibility list CANDATA.xls can be found on [www.kodinis.lt](http://www.kodinis.lt).

## 1. SECURITY INFORMATION

The vehicle alarm system shall be installed inside the passenger compartment of the vehicle, in a place difficult to access in accordance with the manufacturer's supplied wiring instructions.

The manufacturer of the alarm system recommends the following:

- choose a qualified vehicle alarm system installer to fit in the device;
- the system unit (see Pic 1) shall be installed in place free from moisture and other elements that could pose to corrode the device, as far as possible from any heat emitting elements in the passenger compartment and sources of the electromagnetic interference (e.g. vehicle computer, fans, relay blocks);
- avoid mounting the System unit directly onto metal parts of vehicle to prevent the accumulation of condensate;
- install the System Unit so that the wire connectors would be going from the bottom side of the Unit;
- avoid placing wires next to moving or hot parts of the vehicle;
- do not overload the following circuits of the alarm system:

- cut-off circuit  $\Delta$  current .....no more 25 A;
- Optional control No.1 circuit  $\textcircled{4}$  current .....no more 0.13 A;
- Optional control No.2 circuit  $\textcircled{6}$  current .....no more 0.13 A;
- siren  $\square$  current .....no more 2 A;
- direction indicator on the right circuit  $\textcircled{5}$  current .....no more 7 A;
- direction indicator on the left circuit  $\textcircled{2}$  current .....daugiau 7 A;



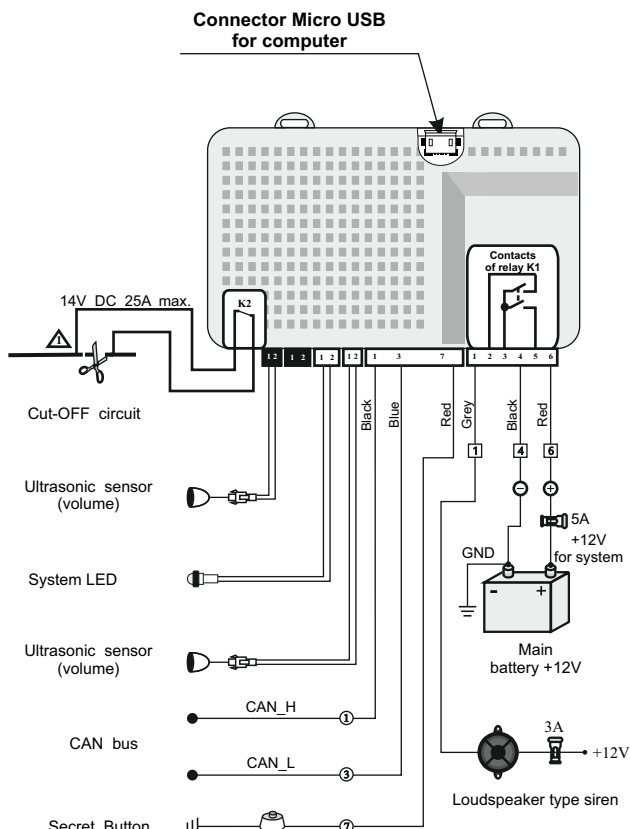
ne Pic. 1. Alarm System GN7C. The System Unit. Identification sticker, date and PIN code.

## 2. SEQUENCE OF SYSTEM INSTALLATION AND CONFIGURATION

- Install the Alarm System (3)
- Select the car and configure the Alarm System (4)
- Select the direction indicator wiring diagram and connect them to the Alarm System (5)
- Connect the additional equipment if necessary (6)
- Check the System operation and fill up the installation documents (10, 11)

## 3. WIRING DIAGRAM

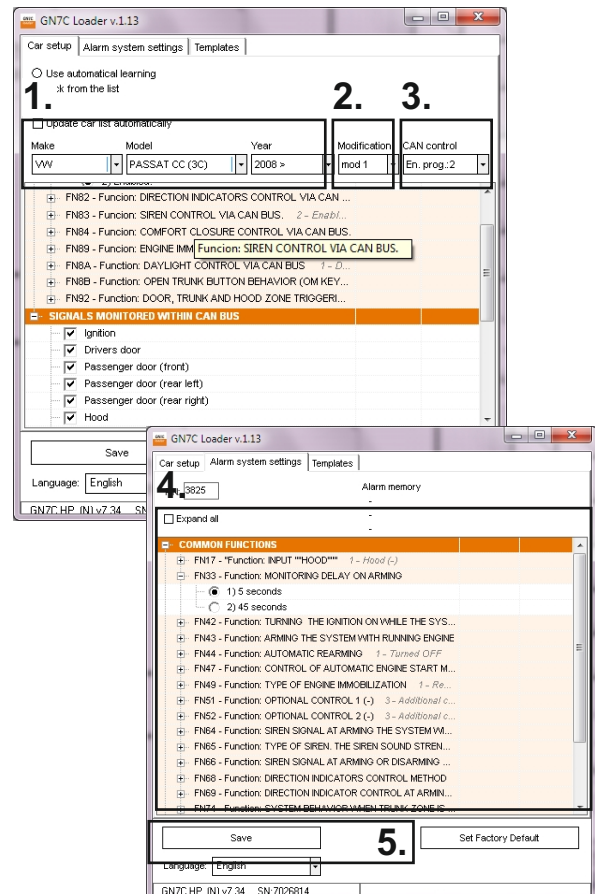
Install the Alarm System according to the wiring diagram.



## 4. VEHICLE SELECTION AND ALARM SYSTEM CONFIGURATION BY COMPUTER

Launch the GN7C Loader configuration software, connect the Alarm System to PC via USB interface.

- Select a car from the list.
- Some cars may have several modifications of the CAN bus, select "mod 1" and test if the System is working. If not, switch to the next modification.
- Turn On the control via CAN bus. For some cars you can select from several control programs, select the first from the list and check if the control is working, if not working, select the next program.
- Setup the required Alarm system settings.
- Save the selected vehicle data and settings.



## 5. DIRECTION INDICATORS

Select one of ways to connect the direction indicators:

**A** - The control of the direction indicators via CAN bus is possible in the car. No additional connections are necessary.

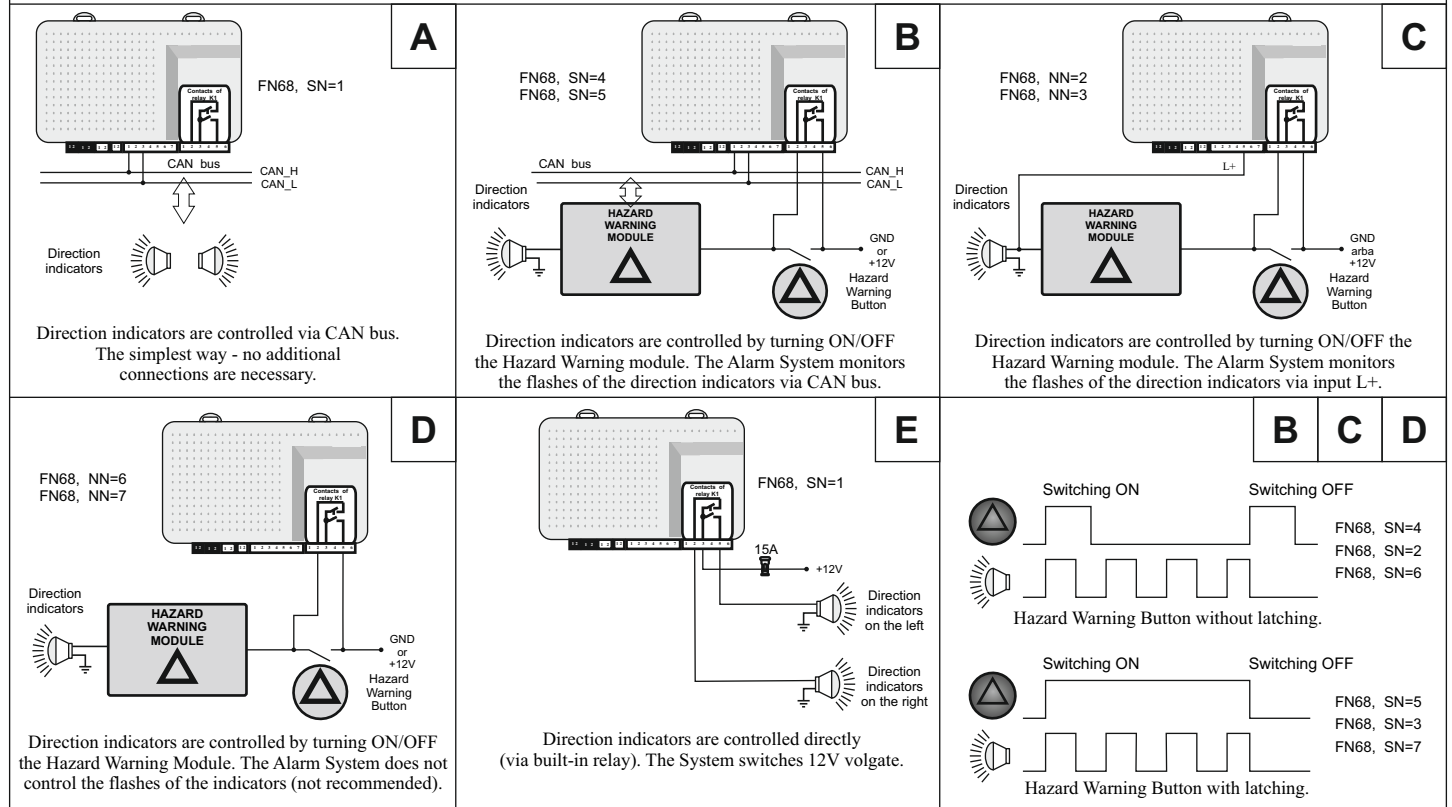
**B** - The connecting to the Hazard Warning Button and the monitoring of the direction indicator flashes via CAN bus are possible in the car.

**C** - The connecting to the Hazard Warning Button, is possible in the car, however the monitoring of the direction indicator flashes via CAN bus is not possible. The analog input configured for monitoring of the direction indicator flashes is used.

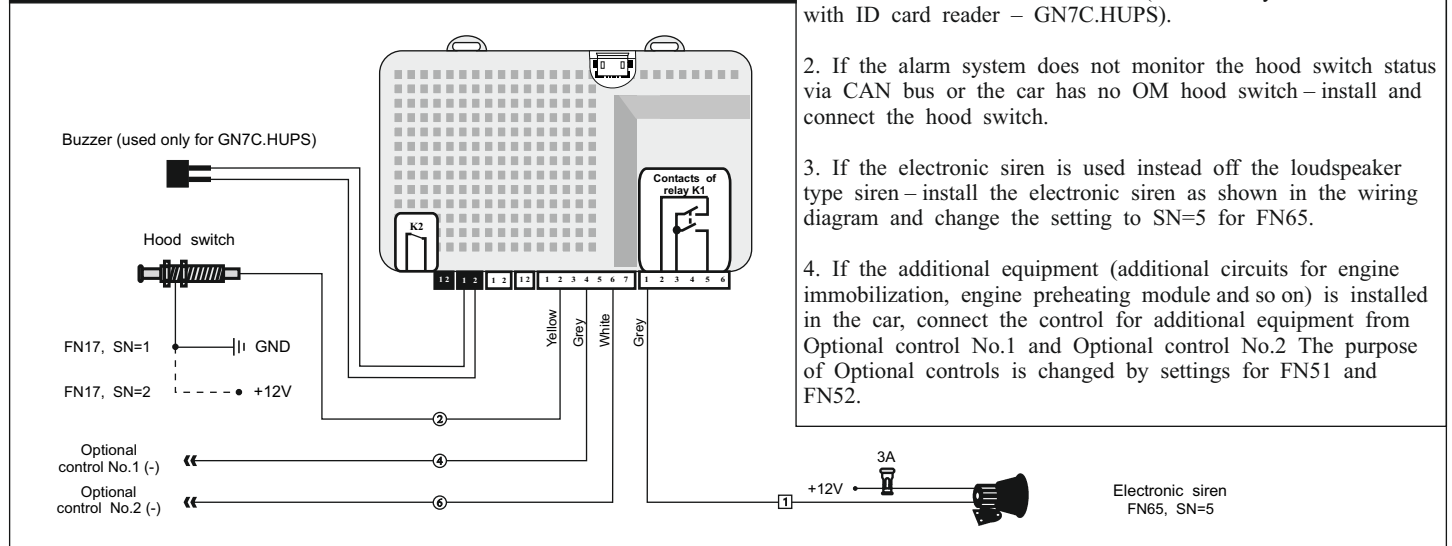
**D** - The connecting to the Hazard Warning button is possible in the car, however the direction indicator flashes are not under monitoring (not recommended way to control the direction indicator).

**E** - The control of the direction indicators via CAN bus and the connecting to the Hazard Warning Button are impossible in the car. The direction indicators are controlled by switching the 12V voltage directly via built-in relay.

**NOTE:** Data about ability to control or monitor the direction indicators via CAN bus is available in the file CANDATA.xls on the manufacturer's web site: www.kodinis.lt



## 6. ADDITIONAL EQUIPMENT WIRING DIAGRAM



## 7. THE SYSTEM TRIGGER DATA

The Alarm System saves the information about the last triggers and can indicate the trigger reasons in 2 ways:

- a) disarm the System, close the doors and turn ON the ignition. System indicates the reason of the last trigger by direction indicator flashes (and siren signals depending on settings);
- b) enter FN71, FN72, or FN73. The System respectively indicates the reason of one of the last 3 triggers by direction indicator flashes (and siren).



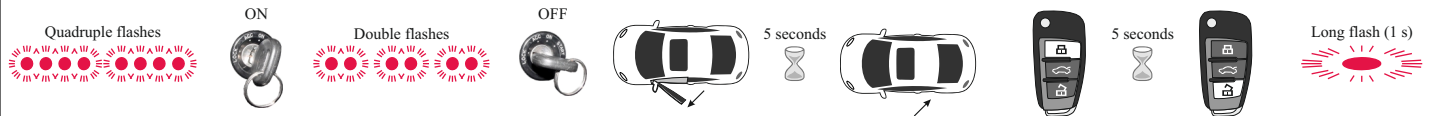
The count of the direction indicator flashes (and siren signals - depending on settings)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Triggered built-in shock sensor	Triggered built-in tilt sensor	Triggered ultrasonic sensor (volume)	Triggered OM sensor	Ignition was turned ON	Front left door was opened	Front right door was opened	Rear left door was opened	Rear right door was opened	Hood was opened	Trunk was opened	Driver not identified	Low Batt not used	Triggered additional sensor

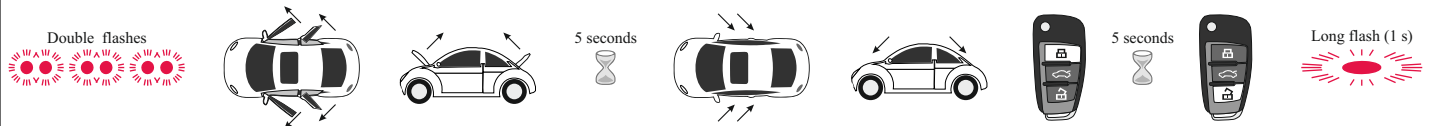
## 8. AUTOMATIC VEHICLE DETECTION

### 8.1. CAR DETECTION PROCEDURE

If the car was not selected manually from the list (by PC using installed GN7C Loader software, see 6), when the System is powered up, the car detection procedure is automatically activated – the System LED blinks quadruple flashes. In order for the Alarm System to identify the car in which it is installed, it is necessary to fulfill the following:



If the car detection procedure failed (there was no long flash of the System LED confirming the successful learning of the System), however the System detected the ignition ON and the System LED blinks double flashes, proceed as follows:



### NOTES. If the Alarm System learning (automatic vehicle detection) failed:

- Repeat the procedure of automatic vehicle detection from the beginning, only this time, first turn ON the ignition and turn ON the power of the Alarm System with the ignition ON.
- Check if the CAN bus and ground wires are well connected, and whether the System is connected to the correct CAN bus.
- Update the Alarm System firmware and repeat the Alarm System learning procedure.

### 8.2. OTHER VEHICLE DETECTION

If the Alarm System was used in one car and later installed in another car, it is necessary to re-execute the vehicle detection procedure or select the car manually (using a computer with the installed software GN7C Loader). To start the automatic car detection procedure, follow these steps:

- enter PIN code (see 9.2);
- within 8 minutes after entering the PIN code enter the code 59 (Fn59).

### 8.3. IMPORTANT TO KNOW

- Vehicle detection procedure can be cancelled by Service Button press. The System terminates the detection procedure and remains in Setup Mode.
- After a successful car detection procedure the System automatically goes into Normal Mode and you can start using the System immediately.

## 9. MANUAL CHANGE OF THE ALARM SYSTEM SETTINGS

### 9.1. PIN, FN AND SN CODES

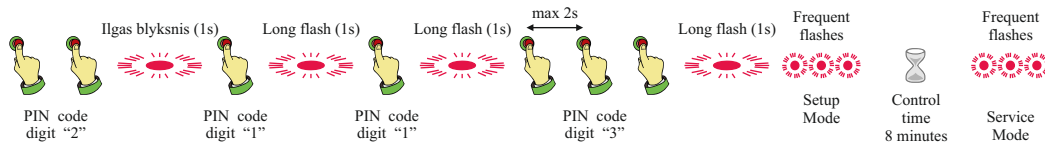
PIN – 4-digit code is required to activate the Setup Mode and the Service Mode. Factory PIN code is printed on the Alarm System label. It is recommended to change the Factory PIN code after the System installation.

FN – funktion number – 2-digit code for selection the function that setting necessary to be changed.

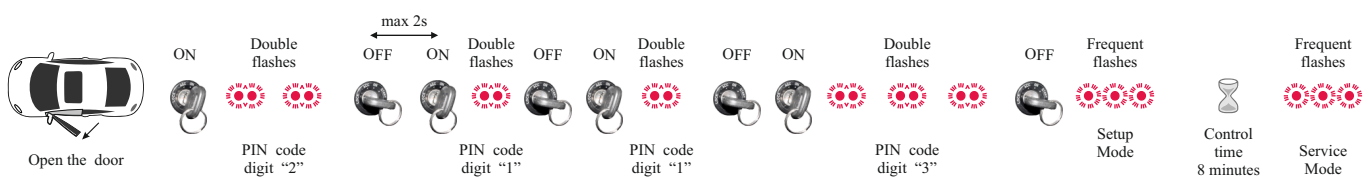
SN – setting number – 1-digit or 2-digit code for selection the setting, that necessary to be set.

### 9.2. ENTERING PIN CODE

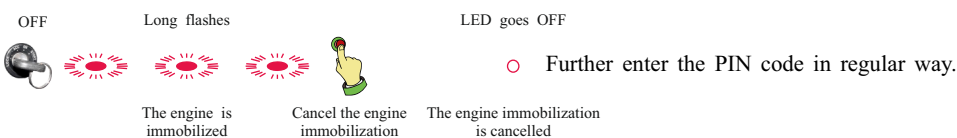
BY SERVICE BUTTON. PIN CODE: “2113”



BY IGNITION KEY. PIN CODE: “2113”



BY SERVICE BUTTON, WHEN THE ENGINE IS IMMOBILIZED



### Notes:

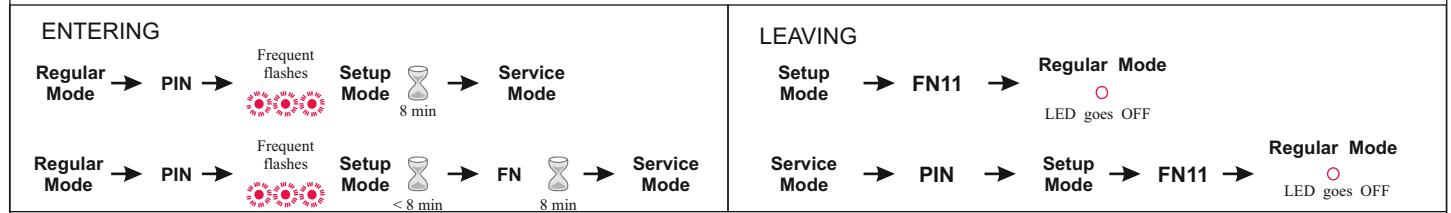
- The System LED of 'GN7C.HUPS' after PIN code entering flashes by triple flashes for 12 seconds. It is the time intended for ID card pairing (see. User Manual). The System LED of other models after PIN code entering flashes by frequent flashes.
- If the 'anti-carjack' is activated, the first press of the Secret Button cancels it, and only the following Secret Button presses enter PIN code.
- Return to Regular Mode. If the 8-minute Control time after PIN code entering is not elapsed – enter code 11. If the Control time is elapsed - enter PIN and code 11.
- If a mistake has been occurred during PIN code entering by Secret Button, wait for LED conformation flash, wait 2 seconds once more repeat the procedure from the beginning.
- If a mistake has been occurred during PIN code entering by ignition key, turn OFF the ignition, close the doors and repeat the procedure from the beginning.

### 9.3. SERVICE MODE AND SETUP MODE

The Setup Mode is activated for 8 minutes after the PIN code is entered. The Alarm System goes into the Service Mode after the 8-minute Control time is elapsed if no FN or SN code is entered. Each FN or SN code entering extends the Control time up to 8 minutes.

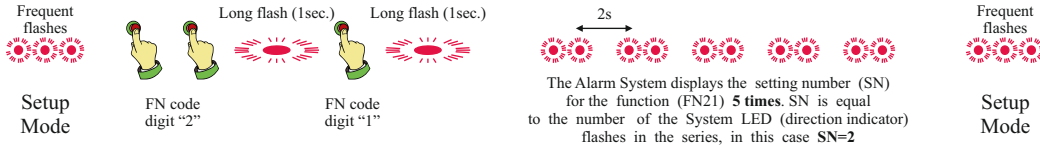
**Setup Mode** is dedicated for manual change of the System settings. The **FN** and **SN** codes are used for manual change of the System settings.

**Service Mode** is dedicated for emergency shutdown of the Alarm system (malfunction of the Alarm System, car repair).

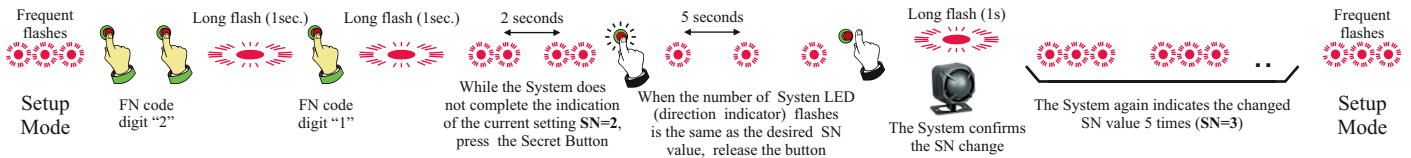


### 9.4. SETTING SETUP

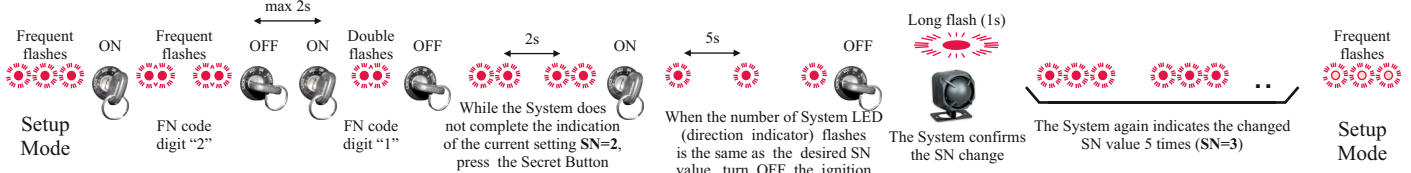
1. Enter the Setup Mode.
2. Check the current setting for FN21 (for example, by Secret Button).



3. Changing the setting for FN21 to SN=3 by Secret Button.



4. Changing the setting for FN21 to SN=3 by Ignition Key.



**NOTES:** 1. If the FN code is not entered due to an error, wait for frequent flashes of the System LED and try again. 2. If the FN code is not entered because the 8-minute Control time is elapsed, enter the Setup Mode again. 3. The SN indication can be cancelled by short press of the Secret Button or turning ON the ignition for a short time (if the FN code entered by the ignition key). 4. **FN31, FN32 and FN34** – adjustment/testing of sensitivity of built-in sensors. When one of codes is entered the System indicates the SN value by flashes of the System LED once. Now you can check the sensitivity of the sensor. The trigger will be indicated by short siren signal. The sensitivity (SN value) can be changed at any time while adjustment/testing is active. After SN value change, the new one will be displayed once again and after that it will be possible to check the sensitivity. To exit this mode briefly press the Secret Button or turn the ignition ON (if the FN code was entered by ignition key).

### 9.5. AVAILABLE SYSTEM SETTINGS – FN AND SN CODES

A complete list of possible settings is given in the table of system function settings, a to which can be found on the manufacturer's website [www.kodinis.lt](http://www.kodinis.lt). „EU“ column: the function settings that conforms the EU requirements are marked by ✓ sign. The choice of the settings that do not comply with EU requirements is permitted if the vehicle is operated in countries that are not EU members or do not apply UNECE Regulation No. 97. Other columns: the System settings available in the certain GN7C versions are marked by ✓ sign, the factory settings are marked by ☑ sign.

### 10. SYSTEM PIN CODE

I, undersigned qualified installer, have been informed the customer that: SYSTEM PIN CODE IS \_\_\_\_\_

**THE USER MUST CHANGE THE PIN CODE AFTER THE INSTALLATION AND DO NOT SAVE IT INSIDE THE CAR!**

### 11. 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: 'GN7C'. Model: \_\_\_\_\_ Official approval number: \_\_\_\_\_

Installation date: \_\_\_\_\_

Installing company: \_\_\_\_\_

Installer: \_\_\_\_\_ (Position, signature)

