SKYBRAKE

SKYBRAKE GSM
USER MANUAL

GSM-CAN is a vehicle alarm system, designed for modern cars, equipped with central locking, able to operate from distance, and CAN-BUS. Skybrake GSM main advantages are reliable engine blocking, which protects vehicle against theft, additionaly with alarm disabling with changable PIN code, built-in GSM Communicator and level sensor.

1. SYSTEM ARMING

1.1. ARMING

Press a button on remote control which closes central locking. Vehicle signals with direction indicators, and for short period (0.1 seconds) turns on cars sound signal (depends on central locking and alarms settings), central locking closes. Systems light diode starts to shine constantly, then goes to blinking. System is armed. If someone opens doors, bonnet, trunk, there is movement in saloon, or system identifies level changes or impact, it will turn on the alarm.

1.2. TURNING ALARM ON, WITHOUT SENSORS, USING SECRET BUTTON.

With ignition turned off press secret button. Pay attention to light diode. Blinking one time confirms the pressing of secret button.
Exit the vehicle in next 20 seconds, close the doors and close the central locking using remote control. For system arming without sensors, system informes with long (0.5 seconds) sound signal (depends on system settings). System is armed, but ultrasound sensor and/or level sensor is disabled from system. Movement in saloon and/or cars level changes or impacts won't make the system to sound the alarm.

1.3. TURNING ALARM ON, WITHOUT SENSORS, USING INGNITION KEY

Turn ignition on and off 3 times. Look at the light diode. Blinking one time will confirm 3rd time of turning on and off the ignition. Exit the vehicle in next 20 seconds, close the doors and close central locking using remote control. For system arming without sensors system informs with long (0.5 seconds) sound signal (depends on system settings). System is armed, but ultrasound sensor and/or level/impact sensors are disarmed from system. Movement in saloon and/or cars level changes or impacts won't make the system to sound the alarm.

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2. SYSTEM DISARMING

Press the button on remote control that opens central locking. Vehicle signals with direction indicators, and for short period (0.1 seconds) turns on sound signal (depends on central lockings and alarms settings), Light diode stops blinking. System has been disarmed.

3. SERVICE MODE

In special cases (loss of central locking remote control, battery in remote control is empty or malfuctions, repair of vehicle) Skybrake GSM can enable service mode. In this mode system ignores sensors, doesn't block engine, signalise, but systems light diode blinks with short intervals. Service mode can be turned on with PIN code in two ways.

3.1. TURNING ON SERVICE MODE WITH SECRET BUTTON

Most comfortable way to turn on service mode is entering PIN code with secret button. If secret button is installed in car, check the PIN code you had chosen. Enter PIN code by pressing the secret button; number of pressees should match the first number of your PIN code (gap between preses can not exceed 1 second); wait for 1 second long blink on light diode, which confirms entering of first number. Following the same way enter second, third and fourth numbers of PIN code. I fanti-hijack or immobiliser functions are enabled, then on first press of the secret button system reacts as to anti-hijack or immobiliser function control. On following preses of secret button system reacts as of entering a PIN code.

3.2. TURNING ON SERVICE MODE WITH IGNITION

If car isn't equipped with secret button, open drivers door and turn on ignition. After brief pause systems light diode will start to blink with double blinks. Count blinks until number (One double blink = 1) which corresponds to your first PIN code number, then turn off and turn on again ignition. Now count double blinks until number which corresponds to second number of PIN code and again turn off and turn on ignition. Following same pattern, enter third and fourth PIN code numbers. If correct PIN code has been entered, light diode blinks with often blinks. If wrong PIN code has been entered: turn off ignition, close drivers side door and start everything from point 4.2 again.

3.3. TURNING SERVICE MODE OFF

Enter your PIN code, and in next 8 minutes (following same pattern as in points 4.1 and 4.2) enter a code „11".

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4. BUILT-IN GSM COMMUNICATOR

4.1. For communicaton to work it needs a functional SIM card, it needs to be prepared for use: PIN code for SIM has to be disabled, SMS has to be deleted, needed services has to be turned on.

4.2. With voice commands and SMS commands user can:
a) adjust communicator settings;
b) adjust alarm systems function settings (user adjust is not advised)
c) recieve information about system status and vehicles position information, control alarm system.

4.3. ALARM AND INFORMATION NOTIFICATIONS ON REGISTERED NUMBERS
There can be saved up to 5 phone numbers to which, depending on settings, will be coming calls and/or SMS notification. To each number are available following settings:
Obligatory voice notification (call) in case of alarm. If system has been set up in a way that after alarm system would call to more than one number, then to the number, which has been set as obligatory, then system calls to said number even after calling to different number system has recieved acknowledgement of system alarm working. If user does not accept the call (not „picking up" the phone) or accepts call, but is not entering code of acknowledgement (0# or PIN code and #), system tries to call user up to 3 times.
Voice notifications (call) in case of alarm. If calling to a different number system recieves code of acknowledgement, then system doesn't call this number anymore. If user refuses the call (doesn't „pick up" the phone), or accepts the call, but is not giving code of acknowledgement (0# or PIN code and #), system tries to call the user 3 times.
+ SMS notifications in case of alarm.
+ SMS when arming the system
+ SMS when disarming the system
+ SMS about remote engine turning on/turning off or turning on/off autonomous car heater.
+ SMS about defects (car battery charge is lower than previously set mark)
+ Periodical test SMS. SMS about state of the system after previously set time period (1 till 4 days) at 12pm.
+ Unrecognisable SMS forwarding. If this setting is enabled for a number, then system will forward all unrecognisable SMS.
Note: If accepting calls and SMS command execution is disabled from unregistered numbers, then all SMS from unregistered numbers will be deemed unrecognisable.
+ SMS notifications in SmartPhone format. This setting can be enabled in case user has a smartphone with Android operating system and application Skybrake. In other cases this setting has to be disabled.

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4.4. CALLS AND SMS NOTIFICATIONS TO ALARMS SYSTEM NUMBER

SMS

If accepting calls and SMS commands from numbers other than registered in memory has been disabled (Table 2, Command SH0), then system rejects call from unregistered numbers, but SMS commands from these numbers are ignored, deemed unrecognisable.

This setting does not work (SMS notifications and calls are accepted from all numbers) if system is in Service Mode.

Transmitting commands through voice canal – regardless if call is made from registered or unregistered number its necessary to:

+ Call to alarms system number.

+ With help of phones keyboard enter correct PIN code and press #

+ Enter a command (See Voice command tabele) and press #.

+ To cancel an incorrect command instead of # press *, after that enter a correct command and press #.

To transmit a command in SMS format it's necessary to:

+ In the beginning enter a correct system PIN code, if command is sent from an unregistered phone.

+ You can skip the step of entering a PIN code if command is sent from a registered number and request for PIN code is disabled for said number. Command starts with symbol * and ends with symbols *#.

While in session DTMF code after pressing a keyboard button is sentat once, therefore correcting an incorrectly entered symbol is useless.

For each of registered phone numbers are available following settings:

+ PIN code request in SMS command. If this setting is enabled and at the beginning of SMS command there isn't a correct PIN code, system deems SMS unrecognisable.

+ Denied system control. System considers SMS notifications to be unrecognisable and „drops" calls. This setting is intended for reserve number of security service. If control denial setting is enabled by mistake, with help of secret button or ignition enter a PIN code and with SMS commant disable this setting and turn off Service Mode.

+ Changing system status with Short Call. If system recieves call from a given number, it doesn't answer right away (waits approximately 5 seconds) and if call is ended before system accepts the call, alarm changes its status (Arms the alarm, if its disarmed and other way around).

SMS Commands		
SN?	NNNN	Add new phone number in position ? in the number list (? – position number 1 to 5)
SN0	NNNN	Add new phone number NNNN in first free position in number list.
SR?		Delete number from position ? in number list (? – position number 1 to 5)
SI		Recieve SMS with all saved phone numbers
SH1		Allow accepting calls and SMS notification from unregistered numbers
SH0		Forbid system from recieving calls and executing SMS commands from unregistered numbers. Calls from unregistered numbers will be ignored, SMS commands will be deemed unrecognisable

Voice Canal Commands	
1#	Arming the system
0#	Disarming the system
00#	Clean alarm memory
09#	System status
41#	Vehicle positioning by GPS
42#	Vehicle positioning by GSM
5#	Get information about SIM cards balance
611#	Start engine
610#	Stop engine
621#	Start autonomous car heater
620#	Stop autonomous car heater
661#	Engine blocking
660#	Unblock engine
7#	Personal setings menu
	x=1 – enabled
	x=0 – disabled
0x#	Recieve SMS about disabling alarm
1x#	Recieve SMS about enabling alarm
2x#	Recieve SMS in case of alarm going off
3x#	Recieve SMS about enabling alarm, disabling alarm, SMS in case of alarm going off, SMS about technical fault, periodicall test SMS, voice notification (call) in case of alarm going off
4x#	Recieve a voice notification in case of alarm going off
5x#	Recieve SMS about technical fault
6x#	Recieve periodical test SMS
7x#	Recieve obligatory voice notification (call) in case alarm goes off
*	Return to main menu
8#	Alarm system function menu. Note: available only to user calling from number in first position in number list.
9#	Phone number menu
00#	Delete all phone numbers from list
04#	Denied recieving calls and executing SMS commands from unregistered numbers

05#	Allow recieving calls and executing SMS commands from unregistered numbers
09#	List of registered numbers
?0#	Delete number from ? position in numbers list (? – position number 1 to 5)
?1#	Add new number in position ? in numbers list (? – position number 1 to 5)
?2#	Add your number in position ? in numbers list (? – position number 1 to 5)
*	Return to main menu
**	End call