MASTER TXT zz,text,zz,text,…

where: **zz** is the text index (see following table)
text is your new text – up to 30 characters, full stop (dot) or comma cannot be used in the text, spaces are allowed

Example: MASTER TXT 01,LOCK PLEASE

By changing texts number 01 to 16, you will modify the control SMS instructions. This allows you to customize the remote control of the car. You can also make your own password part of the instruction to increase the security of the mobile phone remote access.

10.1 SMS text table

zz	*Factory default text*	zz	*Factory default text*
SMS commands:		45	Current detector
01	AM	46	Telephone 1
02	DM	47	Telephone 2
03	IMO	48	Telephone 3
04	UNIMO	49	Telephone 4
05	STATUS	50	Telephone - UC
06	HELP	51	Telephone - MC
07	CREDIT	52	Remote controller
08	DIAL	**Status information:**	
09	HF	60	Car alarm reports:
10	LOCATOR	61	Status:
11	MC	62	Armed
12	UC	63	Disarmed
13	DIP	64	Ignition key ON
14	TEL	65	Ignition key OFF
15	LEARN RC	66	Engine is blocked
16	LEARN JA	67	Engine is unblocked
17	SIREN	68	No alarm
18	SET	69	Alarm timeout
Events:		70	Low accumulator voltage
30	Alarm	71	Power failure
31	Alarm canceled by a user	72	Power recovery
32	Fire alarm	73	Time:
33	Tamper alarm	74	Low battery voltage
34	Disarming	**Confirmation SMS:**	
35	Arming	80	Command accepted
36	Low battery voltage	81	Command syntax error
37	Engine is blocked	82	New MC code:
38	Engine is unblocked	83	New UC code:
Source:		84	Reset
40	Ignition key	85	Registered phone number:
41	Door contact	86	Credit:
42	INP1 activation	87	LEARN mode, enrolled
43	INP2 activation		
44	Wireless detector		

11 Internet remote access

The web site **www.GSMLink.cz** enables car alarm remote control (to users) and setting (to installers). The following features are enabled:

To get internet access to an installed and powered car alarm you will first be asked to register your car alarm on the first page. You will find a unique registration code for your car alarm on the warranty card.

11.1 Reset GSM

If you need to disconnect and then reconnect the GSM module to the GSM network, then use the command "MASTER RESET GSM".
This does not affect any settings and is typically used for GPRS activation or charging up credit. This command always requires the Master code.

12 Central monitoring station communication

The GSM pager allows central monitoring via GPRS data protocol. The central monitoring station (CMS) gets arming, disarming and alarm information. It also regularly checks the communication link to the car after it is armed. So if anyone tries to tamper with GSM pager communications, it will indicate an alarm at the CMS.

13 Additional features

13.1 Car battery low voltage reporting

The GSM pager checks the voltage of the car battery. If the voltage is too low (10V) it will notify users via an SMS message. This avoids complete discharging of the car battery if you forget to turn off your lights etc.

13.2 Back-up battery

The car alarm can be backed up by a BB-01 battery. Thus, the car alarm can keep sending information when the car battery is disconnected. Back up time is provided for several hours. The manufacturer recommends regular BB-01 checking once a year. The battery should be replaced every two years. Low back up battery voltage of the (below 4V) is reported to the user via SMS (change the battery in this case).

13.3 Voltage drop detector

The built-in voltage drop detector can trigger an alarm if an electrical device in the car is turned on while the car is armed. The sensor activates 10 minutes after arming (if enabled).

13.4 Entrance delay acoustic indication

The siren can indicate arming and disarming by beeps (see DIP parameter setting). The siren will also indicate the triggering of a wireless detector which provides an entrance delay (by a single beep). This way you can be reminded not to forget to disarm your car alarm after you open the garage door etc.

13.5 Limited number of alarms

If any sensor (input) repeatedly triggers alarms then this particular input will be bypassed automatically after the third alarm (it will remain bypassed until the car alarm is disarmed).

13.6 Car location

If your GSM provider offers a location service, you have to activate the LOCATOR command after installation by the following SMS sequence:

MASTER LOCATOR xx…x

where: **MASTER** is installers code
xx...x is provider's sequence to obtain the position of the car alarm SIM card (check with your GSM provider for details)

After this sequence has been sent successfully once, the car alarm memorizes the parameters and from this moment on you can obtain the location of the car by just sending the instruction LOCATOR.

Note: GSM location service may not be available in some countries.

13.7 Pre-paid SIM card balance

It is recommended not to use prepaid cards in the car alarm. If you have no other choice than prepaid cards, you can enable the CREDIT instruction by following sequence:

MASTER CREDIT uuu..u xx yyy zz

where: **uuu…u** is the provider's code to obtain the balance
xx is the time period (in days) for regular checking
yyy is the threshold level below which the balance is reported to the user (TEL1)
zz is the position of the first digit of the balance in the reply SMS from the provider

- After this sequence has been sent once, the car alarm will check the balance automatically every xx days and if the balance is lower than yyy the user will be notified (TEL1)
- If the CREDIT instruction is enabled in the above way, the user can also obtain the current balance by the instruction CREDIT
- To disable the automatic balance checking set the time period "xx" to 00.

13.8 Roaming

If you travel abroad and your SIM card supports roaming, the car alarm will work there too.

13.9 Siren activation

If you are searching for a stolen car, you can operate the siren remotely by the following SMS instructions:

MASTER SIREN turns the siren on for 10 minutes
MASTER SIREN ON siren on permanently
MASTER SIREN OFF siren off

To avoid misuse of this option, only an installer can switch the siren on.

13.10 LED indicator signals

LED state	Meaning
OFF	Disarmed
permanently ON	Connecting to a GSM network or a phone call
Regular slow flashing	Armed
Regular fast flashing	Alarm memory
Interrupted light	Car was stopped (immobilization)
Flashing after ignition off	GSM network is not available
Flashes after ignition on	Number of enrolled remote controls

14 Specification

Please see Mode 3.

CA-1202 "Athos" installation manual

MODE 1 – for cars without original remote control for central locking

Main features for this mode:

- Protecting a car with wired and wireless sensors (wireless sensors can also be used to protect the garage where the car is parked).
- Sending of alarm SMS messages to up to 4 phones.
- Dialing and acoustic alarm warning to up to 4 phones.
- Location tracking of the car (using the triangulation feature of the GSM provider)
- Remote immobilization of the car via SMS instruction.
- Remote control of the alarm system and the central locking via SMS instructions as well as by key chain remote controllers.
- Remote internet access (user and installer levels) via www.GSMLink.cz
- Optional - Hands Free calling (receiving of any incoming call and dialing up to four pre-programmed phone numbers)
- Central monitoring of the car when armed (fully supervised GPRS protocol)

1 Before installation

The CA-1202 should only be installed by a professional installer. The manufacturer assumes no liability for damages caused by incorrect installation or use of this product.

The Athos car alarm is suitable for cars with 12V and negative grounding. The main unit is designed for installation in the passenger cabin.

Disconnect the car battery before starting installation; **study the car owner manual at first.** Avoid drilling into the metal parts of the car body.

Note: Use only proper crimping tools and parts to make connections. Cut all unused wires and insulate them properly.

The thin wire which leads directly out of the central unit is the remote control and wireless detectors' antenna. The location of this wire affects the communication range. Place the antenna on a suitable plastic surface so that the other wires do not screen it.

2 Wiring

After you find a suitable location for the main unit, install the wire harness, see fig. 1:

- **YELLOW** – siren output (+12V / max. 1A).
- **GREY – door switch** input. It reacts to connection or disconnection from the ground (automatically recognizes logic).
- **WHITE – INP1** and **YELLOW–WHITE – INP2** are **alarm inputs** – react to connection or disconnection from the ground (automatically recognize logic).
- **BLUE – ignition key** input (+12V). Be sure, that there is +12V while the key is on and while starting.
- **GREEN – LED indicator** – install it in a visible spot on the dashboard. Connect the other end of this lead to the GND.
- **WHITE-BLACK** (position 10) **– "Lock" WHITE-BLUE** (position 11) **– "Unlock"** – Central locking control outputs. When activated, the outputs switch to GND (max. 200mA), with a selectable pulse length.. Two pairs of central locking wires are available. For mode 1 use **the wires with black shrinkable tube**. Carefully push the ends of the chosen wires into the main plastic connector. Be careful to select the correct wires as removal from the main connector is very difficult without the proper tool.
- **BLACK – GND** – connect to the original grounding in the car.
- **RED – power supply +12V -** connect directly to the battery. Check that the installation is properly finished and that the GSM antenna is connected before powering up!
- **ORANGE – back-up battery** – connect optional battery BB-01 (Jablotron) if desired. if the BB-01 is not connected, then ground the wire.
- **2x BROWN** – immobilization circuit (8A permanently, max. 12A / 3minutes).
- **PINK –** not used

3 SIM card insertion

1. Make sure, that the **PIN password on the SIM is disabled**. You can do this using a mobile phone (e.g. for NOKIA: MENU, SETTINGS, SECURITY SETTINGS, PIN CODE REQUEST, OFF). If your SIM card does not allow switching the PIN off, change the PIN to 0000.

2. Activate the SIM card if necessary (see provider's instructions), **ensure that it works** (by a mobile phone) and **record its phone number**.

3. Using a thin pointed tool, press the colored button to release the SIM cardholder. **Insert the SIM card into the holder** with the gold contacts facing up and then reinsert the holder.

4 GSM antenna installation

DO NOT switch the power on before the GSM antenna is connected. The provided antenna is adhesive and should be attached to the car window. The antenna should not be obstructed by any metal part. It is recommend to install the antenna in a place where it is not easily visible (tinted part of the window, behind mirror etc.). If the car has an original GSM antenna installed, it can be used (if the connector is different, use an appropriate adapter).

5 Initial powering-up of the alarm

Make sure, that the GSM antenna is connected, SIM card inserted and the wire harness installed properly. Then connect power (car battery). The LED indicator will turn on and the siren will make a short chirp. Wait until the LED turns off (up to 1 minute).

If the LED starts to flash, no GSM network was found. In such a case turn the power off, remove the SIM card and try to use it in a mobile phone (at the place where the GSM antenna is). Check also if the PIN protection is OFF (or set to 0000). If the SIM card logs into network successfully, reinsert it in to the alarm and repeat powering-up.

After the alarm is powered, you have to:

a) **Select Mode 1** by command **RESET EN 1**
b) **Enroll remote controls and wireless detectors** (if used)
c) **Set the programmable features** (phone numbers, DIP, SET, etc.).

These can be done by:

- ***SMS instructions*** – see table 6.1. *For example sending SMS:* ***MASTER RESET EN 1*** *to the car alarm will select Mode 1.*
- ***Internet page:*** **www.GSMlink.cz** is the most convenient way. To register there you need to know the registration code (printed on the warranty card) and the master code (factory default is MASTER).
- ***SIM Card phone directory editing*** (see table 6.1 for list of features which can be programmed this way). After the initial powering-up a list of parameters is created in the SIM card phone directory. If you then insert the SIM card in to a mobile phone, you can set particular features (by entering numbers to the created list). The entry for Mode setting is not automatically created, but it is possible to make a new entry name: RESET EN and number: 1. Data entered this way are read by the car alarm after the SIM card is reinserted. For security reasons it is erased after reading.

6 Enrollment of remote controls and detectors

Up to 4 RC-4x remote controllers and up to 8 JA-60 wireless detectors can be enrolled to the car alarm (after Mode 1 is selected by the RESET EN 1 instruction).

Remote control enrollment:

1. The car alarm should be **disarmed, ignition on**
2. Send the SMS instruction: **MASTER LEARN RC**
   - The siren will chirp 3x and the LED will start flashing.
3. Press and **hold buttons** 🔓 and 🔒 together for 3 sec on the remote control.
   - A siren chirp confirms the enrolment.
   - By enrolling the first remote control all other remote controls previously enrolled will be erased (all the remote controls you want to use must be enrolled during the same enrolment session).
4. **Exit** enrollment by **turning the ignition off**.

Wireless detectors enrollment:

1. The car alarm should be **disarmed, ignition on**
2. Send the SMS instruction: **MASTER LEARN JA**
   - The siren will chirp 3x and the LED will start flashing.
3. Insert a battery in to the detector.
   - A siren chirp confirms the enrollment.
   - By enrolling the first detector all other detectors previously enrolled will be erased (all the detectors you want to use must be enrolled during the same enrollment session).
4. **Exit** enrollment by **turning the ignition off**.

Note: if the detector is switched to delay mode the alarm will provide a 20 second entrance delay after triggering of the detector. An exit delay of 20 seconds is provided to all enrolled detectors after the car alarm arming.

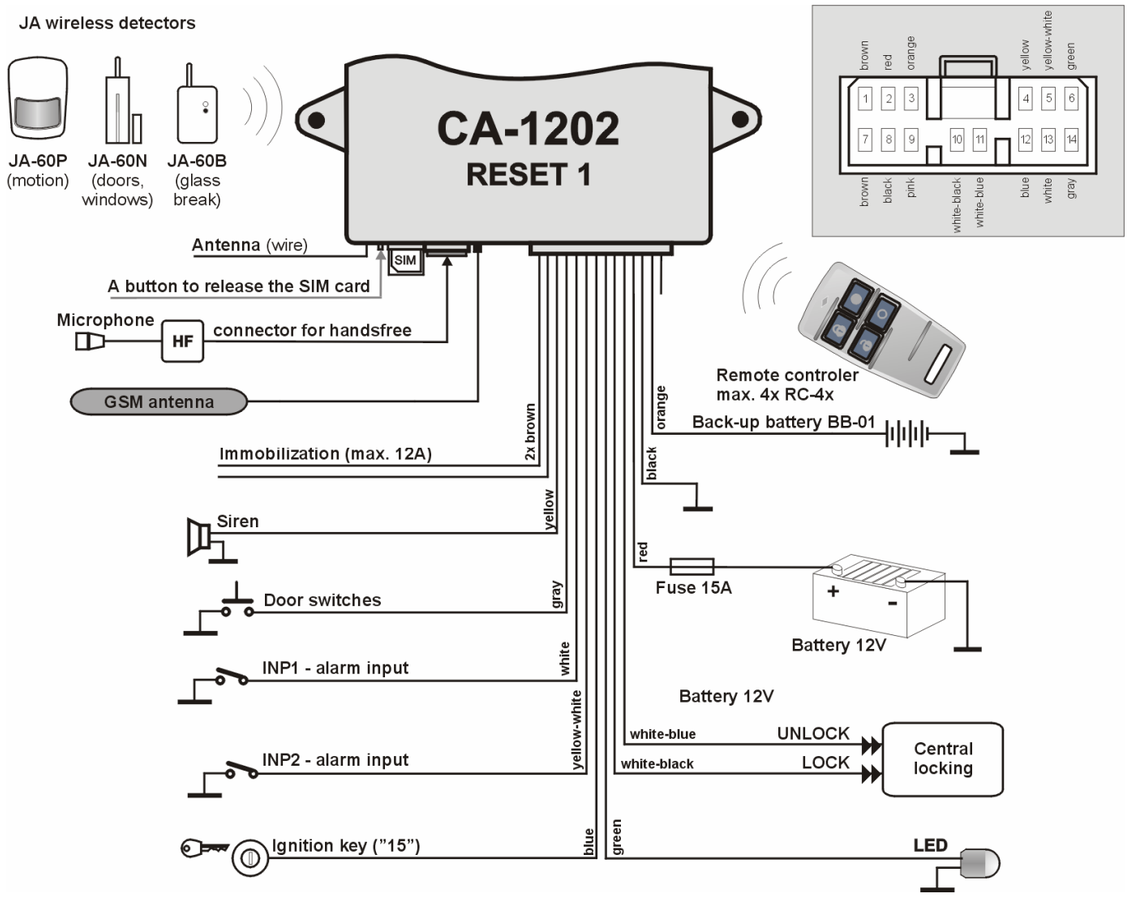

Figure 1: **installation of the car alarm in Mode 1**

6.1 Programming sequences

Enter the prescribed spaces in SMS texts as shown in the table below. MASTER is a factory default master code, which should be changed to your own password. All SMS texts are case insensitive.

SIM entry*	Text of SMS instruction	Description
RESET 1	**MASTER RESET EN 1**	**Mode setting.** Factory default is 0 – no function (immobilization relay copies ignition). *Note: By performing the RESET EN x instruction, all settings, remote controllers and enrolled wireless detectors will be erased!* RESET is indicated by four siren chirps.
Not possible	**MASTER UC uuuu**	**User Code setting** – the code (password) allows you to operate the alarm remotely via SMS from unauthorized phones. uuuu is a new user code, up to 8 letters (A –Z & 0 – 9). Factory default user code is USER
Not possible	**MASTER MC xxxx**	**Master Code setting,** xxxx is a new master code, up to 8 characters (A –Z & 0 – 9). The code allows you to change settings for the car alarm. Factory default master code is MASTER
TEL1 xx...x	**MASTER TEL1 xx...x**	**Setting of phone numbers to report alarms** (these phones will also be authorized to control the alarm via SMS without a user password) *E.g.: MASTER TEL2 +420602123456 will enter the phone number to TEL2 memory MASTER TEL3 0 will erase the TEL3 memory.*
TEL2 xx...x	**MASTER TEL2 xx...x**	
TEL3 xx...x	**MASTER TEL3 xx...x**	
TEL4 xx...x	**MASTER TEL4 xx...x**	
DIAL1 xx...x	**MASTER DIAL1 xx...x**	**Setting of phone numbers to dial using Hands free.** *E.g.: MASTER DIAL2 +420602123456 will enter the number to DIAL2 memory (which is dialed after you press button ○ on the remote control) MASTER DIAL2 0 will erase the memory DIAL2.*
DIAL2 xx...x	**MASTER DIAL2 xx...x**	
DIALA xx...x	**MASTER DIALA xx...x**	
DIALB xx...x	**MASTER DIALB xx...x**	
DIP abcdefghij	**MASTER DIP abcdefghij**	**DIP parameters entry** – see part 7
SET abcdefghi	**MASTER SET abcdefghi**	**SET parameters entry** – see part 8
Not possible	**MASTER LEARN RC**	**Remote Control enrollment -** up to 4 controllers can be enrolled, turn the ignition key on before sending the instruction. To enroll a remote control press and hold buttons 🔒 and 🔓 together for 3 seconds. After you enroll all remote controls, turn the ignition key off.
Not possible	**MASTER LEARN JA**	**JA-60 wireless detector enrollment –** up to 8 detectors can be enrolled, turn the ignition key on before sending the instruction. To enroll a detector insert its battery. After you enroll all detectors, turn the ignition key off.
Not possible	**MASTER TXT 01,text**	**Editing of SMS texts** (reports and instructions), see part 10
TELU xx...x	**MASTER TELU xx...x**	**Sustained call setting** (for pre-paid cards) 1x month the xx..x number is called, call duration 10 s.

***** See part 5 for details.

7 DIP parameters

By SMS: **MASTER DIP ABCDEFGHIJ** you can change 10 features:

DIP	Description	
	0	1
A	0 = Silent arming/disarming without siren chirps **1 = 10 ms siren chirps when arming/disarming (non backed-up siren)** 2 = 20 ms siren chirps when arming/disarming (backed-up siren)	
B	Silent alarm	**Audible alarm** (30 sec.)
C	SMS alarm report only	**SMS alarm report + siren sound phone call**
D	SMS remote control not confirmed by SMS reply	**SMS remote control instructions confirmed by SMS reply**
E	**0 = arming control by dialing in from TEL1 to TEL4 disabled** 1 = arming control by dialing from TEL1 enabled 2 = arming control by dialing from TEL1 and TEL2 enabled 3 = arming control by dialing from TEL1, TEL2 and TEL3 enabled 4 = arming control by dialing from all TEL1 to TEL4 enabled *Arming and disarming by dialing from authorized phones is free of charge*	
F	**Arming control by dialing in is not confirmed by SMS**	Arming control by dialing in (see E) is confirmed by SMS to the phone which dialed the car alarm
G	**User can not change SMS texts**	User can change SMS texts by TXT sequence
H	**REARM disabled**	If the car is not entered within 1 minute after disarming, it will **REARM**
I	**0 = Immobilization by arming and by SMS instruction** 1 = Immobilization by arming and automatically 5 minutes after ignition is turned off and also by SMS instruction 2 = Immobilization only by SMS instruction	
J	**Self-location disabled**	The car´s location will be sent by SMS to all TEL1 to TEL4 if there is an alarm or if the car stops after immobilization SMS instruction (See 13.6.)

Factory default setting is DIP 1111000000 (bold letters in the text). If you want to change only particular parameters, enter x for the others (i.e. MASTER DIP 0xxxxxxxxx will make arming control silent).

8 SET parameters

By SMS: **MASTER SET ABCDEFGHI** you can change 9 features:

SET	Description	
	0	1
A	Open door arming indication disabled	**Audible indication of arming with open door** (4 beeps)
B	**Voltage detector disabled**	Voltage drop detector enabled
C	lock / unlock signal duration **0 = 0,3 / 0,3 sec** 1 = 4 / 4 sec 2 = 60 / 0,3 sec (automatic window closing)	
D	DOOR input logic: **0 = automatic** 1 = activated by falling edge (grounding) 2 = activated by rising edge (disconnecting from GND)	
E	INP1 logic: **0 = automatic** 1 = activated by falling edge (grounding) 2 = activated by rising edge (disconnecting from GND)	
F	INP2 logic: **0 = automatic** 1 = activated by falling edge (grounding) 2 = activated by rising edge (disconnecting from GND)	
G	no function in Mode1	
H	no function in Mode1	
I	no function in Mode1	

Factory default setting SET 100000010 (bold letters in the text).

If you want to change only particular parameters, enter x for the others (i.e. MASTER SET 0xxxxxxxx will disable open door arming indication).

9 User instructions

9.1 Remote control arming and disarming

Button 🔒 of the remote control is used for arming, 🔓 for disarming (arming control is confirmed by a siren chirp).

9.2 Remote control by SMS instructions

SMS instructions sent from an authorized phone (TEL1 to TEL4) can operate the alarm remotely. Factory default instruction texts are shown in the following table. The instruction texts can be changed by SMS text editing, see part 10.

If an SMS is sent from an unauthorized phone (other than TEL1 to TEL4), a valid user code must be entered before the instruction (e.g. USER IMO).

SMS text	Description
AM	ARM and lock the car
DM	DISARM and unlock the car
IMO	STOP (immobilize) the car (after turning the ignition key off)
UNIMO	Unblock (mobilize) the car
STATUS	Car alarm will reply with status information, e.g. *„car reports: Time: 27.01.04 13:04, Status: Armed, Unblocked, Ignition off“.*
HELP	The car alarm will reply with a brief list of SMS instructions.
UC uuuu	To change the user code. ***uuuu*** is the new user code, up to 8 characters (A –Z & 0 – 9). Factory default user code is USER
CREDIT	To obtain the balance of a prepaid SIM card if used. See 13.7 for details
HF abcdef	Hands-free set adjustment: a – enable calls (**0= disabled**, 1=enabled) b – auto answer incoming calls (**0= disabled**, 1=enabled) c – microphone sensitivity 0 to 9, **(5)** d – speaker volume 0 to 9, **(5)** e - ringing tone volume 0=mute to 9= max., **(5)** f – ringing sound 0 to 9, **(5)**
LOCATOR	To obtain the car location from the GSM provider. See 13.6 for details.

- The parameters in bold are factory defaults.
- The instruction must contain spaces as shown in the table
- Only basic ASCII can be used in the SMS instruction texts
- If the SMS text contains the % sign, then the following text will be ignored. Characters %% in the message stop processing the following text. Using these characters is suitable when sending an SMS from an internet gateway which ads another text – advertisements etc. When using the % character it is **always** necessary to insert the Master or User code followed by a space before the command itself.

9.3 Internet remote control

After you register the alarm on the **www.GSMLink.cz** web site (see 11), you can access your alarm remotely from the internet. Using this access you can obtain the status of your car, you can arm, disarm and you can also stop the car after it was stolen. It is also possible to view the memory of the alarm. Installers can change the settings of the alarm remotely using the internet access.

9.3 Dialing-in remote control

If enabled by the DIP parameters (see 7), the car alarm can be armed and disarmed remotely by dialing in from an authorized phone (TEL1 to TEL4). The car alarm will not answer the incoming call, but when it recognizes your number, it will change status (Arm or Disarm).

Such remote control is free of charge since the phone is not answered.

Warning – if you dial your car alarm accidentally it can cause disarming of the alarm.

9.5 Phone calls by installed hands free set

If the optional HF-03 hands free set is installed, it is possible to receive and make phone calls via the car alarm. When your car is **disarmed and ignition key is on**, the remote control (RC-4x) allows you to operate the hands free set.

Incoming calls – to answer them, press any button on the RC-4x remote control. By pressing any button again, the call will be terminated.

When armed, all incoming calls are automatically rejected. If the car is blocked (by IMO instruction) all calls are automatically answered (it is possible to listen and to speak to the car remotely). Automatic call answering while you are driving can also be enabled by the HF instruction (see 9.2).

To make a call – you can call up to 4 preprogrammed numbers while you are driving. By pressing button 🔒, 🔓, ● or ○ on the remote control you will dial the corresponding number (pre programmed by DIALA to DIAL2, see 6.1)

9.6 Alarm

When an alarm is triggered, the siren will sound for 30 sec., warning SMS messages will be sent to all phones (TEL1 to TEL4) and these phones will also be called with the siren sound.

To stop the alarm, disarm the alarm by pressing the 🔓 button on the remote control or by disarm SMS instruction (DM).

10 SMS text editing

The SMS texts (alarm information and instructions) are factory preprogrammed. However, it is possible to change these texts by a mobile phone or via internet access www.GSMlink.cz

To change a text by your mobile phone, send SMS: