Installation manual: CA-1802 "Athos" – mode 3
GSM pager for cars with an installed car alarm

Main features for this mode:

- Sending SMS messages automatically after the inputs have been activated and sending information SMS messages to up to 4 mobile phones.
- Dialling pre-programmed phone numbers after input activation and giving an acoustic warning signal.
- Passing data to the central monitoring station.
- Remote immobilization (blocking the circuit) via SMS instructions.
- Remote control and programming of the CA-1802 from a mobile phone.
- Hands-free calling and remotely listening-in to the car (receiving of any incoming calls and dialling up to 4 pre-programmed phone numbers).
- Extension of functions via the CR-11A module, for example, operating an independent car appliance via SMS (12V only).
- Internet access and configuration from the www.GSMLink.cz web site.
- Suitable for cars with a dashboard voltage supply of 12V or 24V.

1   Before installation

The CA-1802 GSM pager should only be installed by a professional installer. It is designed to be installed inside a car. A voltage supply of 12V or 24V is required with a negative ground connection. During the first power-up, the value of supply voltage is read and the inputs are set to default settings.

Disconnect the car battery before starting installation. For airbag-equipped cars, no person is allowed to stay inside the car while handling the battery. Disconnecting the battery can cause a reset of some of the car's devices (e.g. clock, default settings etc.). Avoid drilling into the metal parts of the car body. The manufacturer is not responsible for damage caused by any incorrect or unsuitable application of the product.

For crimping, special purpose tools should be used. If you do not use some of the cables, cut them off at a distance of 10cm from the connector, insulate them properly and tie them into a bunch.

For cars with a voltage supply of 24V, the following restrictions apply to car alarm installation:

1. It is not possible to connect a hands-free set of type HF-03.
2. When used for acoustic signalling, the SIR output is switched to the power supply voltage. Consequently, this output switches to 24V, so it is necessary to use a siren of type SA-606-24V (instead of the SA-530 which is supplied in the standard package).

2   The wiring

- **Yellow** – output **siren** – switches to +12V (24 V) / max. 1.3 A for 30 seconds after input activation (optional).
- **Grey – instant activation**. It reacts to connection or disconnection from ground . The reaction time is 70ms.
- **White – input INP**. It reacts to a connection or a disconnection from the ground The reaction time is 3 seconds.
- **Blue –** signals **that the ignition key is turned on.** Reacts to +12V (24V). When you are installing it inside a car, make sure that a voltage is present in the connecting wire while starting. The activation of input INP is blocked during the ignition key input activation and, if installed, a hands free set can be used.
- **Green – LED indicator** – should be installed in a visible place on the dashboard.
- **Black – ground** – connect to the original grounding point.
- **Red – power supply +12V (24V) -** connect directly to the battery. The power should be turned on only after a thorough check of the whole installation has been made!
- **Orange – back-up battery** – connects to a back-up battery of type BB-02 (capacity 450 mAh, consumption up to 20 mA.). This feature is optional.
- **2x Brown** – immobilization circuit (max. 8A constantly, 12A intermittently).
- **Pink** – **output AUX –** bus communication for modules CR-11A

It is possible to **attach a hands-free set** of type HF-03[1]. Using this you are able to phone via the GSM pager, and also to remotely listen-in after the immobilization circuit has been blocked. The HF set connects to the RJ connector on the front side of the car alarm unit.

3   SIM card insertion

1. Make sure, that the **PIN number on the SIM is disabled**. If the SIM card does not allow you to switch the PIN off, set the PIN to 0000. Remember (note down) the phone number of your SIM card. It is recommended to delete all original records in the SIM card's phone directory.

2. Insertion of the SIM card: using a thin object, press the yellow peg in order to pull out the SIM card holder (the front side of the unit), insert the SIM card into the casing with the conducting contacts facing up and push the casing back carefully up to the sticking point.

3. Install and attach the GSM antenna– (the GSM pager must not be connected to a power supply unless a GSM antenna is connected !!!). The antenna is equipped with an adhesive tape and has to be stuck onto the car's window. The antenna must not be installed to metal parts. The antenna should not be installed close to the pager or near other electronic devices. It is recommended to install the antenna in a place where it is not easily visible (like, for instance, on a tinted part of the window). Clear and dry the spot carefully.

4. Check the wiring and connect the power supply. A flash of the indicator and a beep of the siren (if connected) indicate connecting to the GSM network. Wait until the indicator turns off (up to 1 minute). After that the CA-1802 is logged in to the GSM network.

If the flash does not disappear within 1 minute, it means that the login process failed. If such a case occurs, turn off the power supply, pull out the SIM card, ensure that the SIM contacts are clean, insert the card into a mobile phone and check, whether a connection can be established in that particular place. Also make sure that the SIM card's PIN is turned off (or that it is set to 0000). If the mobile phone connection check is successful, return the SIM card to the GSM pager and repeat the whole procedure. At least 10 unused positions for phone numbers are required in the SIM card memory.

4   After turning the power supply on

In order to use the functionality of the GSM pager according to your needs you first have to set up its logic and behaviour by the RESET command. Subsequently, phone numbers and other optional parameters should be set up and an RC-8x key fob can be enrolled. The set-up can be done in the following ways:

- ***by editing a record in the SIM card phone directory*** (it is the simplest setting method but limited to some functions only, see table 5.1). These settings (which determine the devices' behaviour) are read from the SIM card after each powering up of the car alarm. After the initial powering up of the new car alarm with a new (blank) SIM card, configuration records (names) are created in the SIM card's phone directory and the default values set. But in the case that the alarm had been set before and a new (blank) SIM card is inserted then the stored parameters are copied from the internal memory to the SIM card. This will help you after SIM card changing. You can perform basic settings of some of the car alarm's functions by pulling the SIM card out of the alarm (after the power supply has been disconnected) and subsequently inserting it into a mobile phone where you assign numbers to the names of functions displayed in the phone directory from the SIM. See table 5.1 for setting the car alarm's optional parameters. Settings from the SIM card are read after its insertion and powering up.

- ***via the Internet page www.GSMLink.cz*** which is the most convenient way. To register there you need the registration code printed on the warranty card and the master code (factory default is MASTER). For more information, see chapter 10.
- ***by sending command SMS messages*** via a mobile phone, see table 5.1.

Using the CA-1802 as a GSM pager, it is necessary to set RESET EN 3. You can perform it by the SMS instruction "MASTER RESET EN 3" which has to be sent to the GSM pager's SIM card number. Performing a RESET is indicated by 4 beeps. The factory default is RESET 0 without any function assigned, except that the immobilization relay switches on after the ignition key has been turned on. It is possible to put the GSM pager to RESET 0 mode also in the case, that its functionality should be cancelled entirely. By carrying out a RESET, you delete all the GSM pager settings as well as all the previously enrolled remote controllers and wireless sensors.

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[1]   these accessories are optional

5   Enrollment of remote controls

Up to 4 RC-8x remote controllers can be enrolled. This mode only allows the controllers to operate the HF-03 hands-free set.
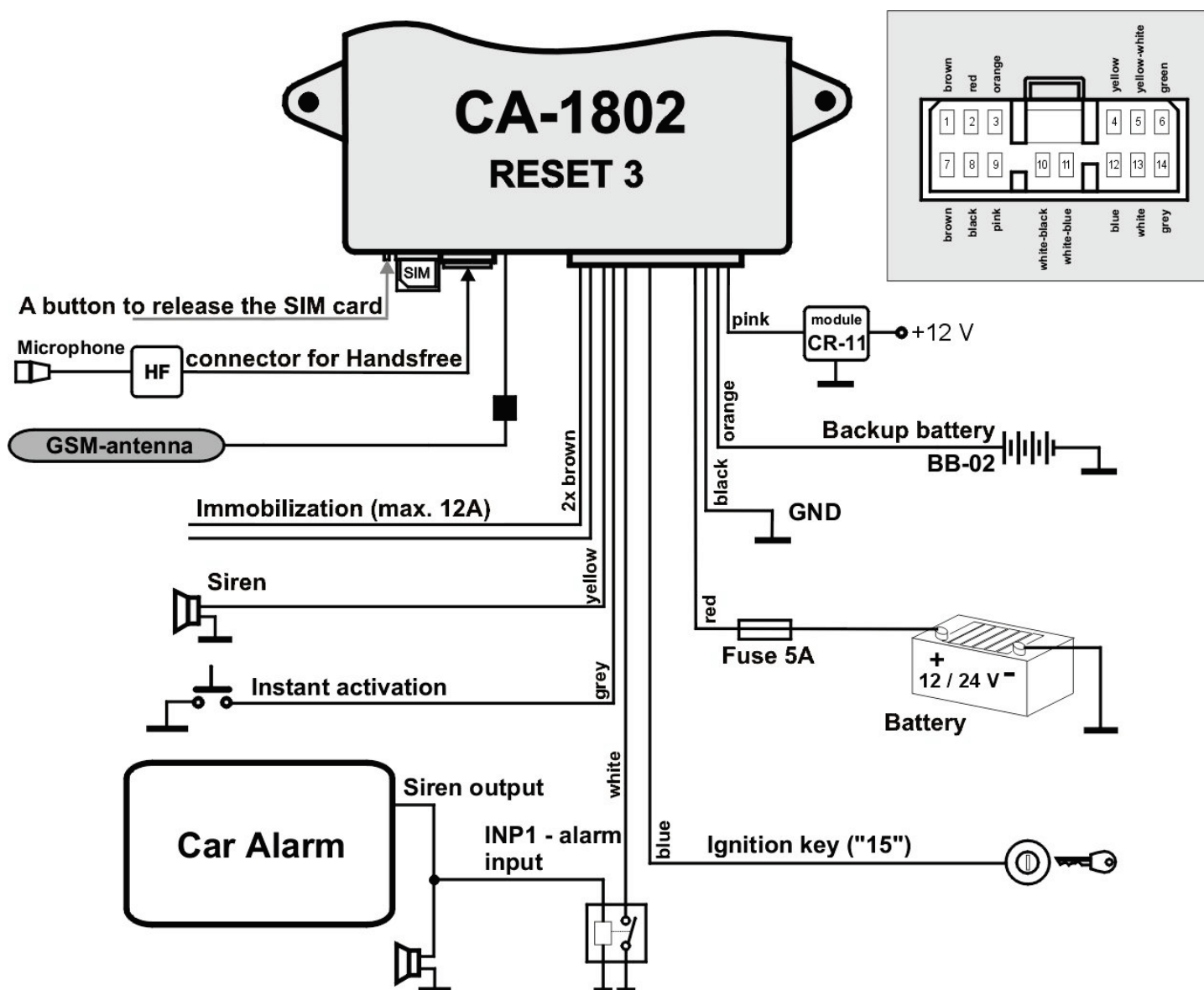
Steps to enroll controllers:
1. Turn the ignition on (power supply assumed).
2. Send the SMS instruction MASTER LEARN RC
3. The GSM pager beeps 3 times (if a siren is connected) and an LED starts to flash.

4. The RC-8x controller is enrolled by pressing buttons 🔓 and 🔒 simultaneously for approx. 3 seconds (at first, the LED has to flash quickly, then a single long flash should appear). A siren chirp confirms the enrollment. By enrolling the first remote control all other remote controls previously enrolled will be erased (so enroll all the controllers intended for use, one by one).
5. Exit enrollment by turning the ignition off. The GSM pager confirms the enrollment by sending an SMS message to authorized phones TEL1 to TEL4.

If no siren has been connected, it is necessary that after finishing the enrollment you verify that all key fobs are enrolled Pressing any button on the RC-8x controller causes a LED of the GSM pager to flash.

Fig. 1: Wiring the alarm in RESET 3 mode. Wiring the alarm this way makes it possible to control the car's central locking.

5.1 Configuration table - be careful to **put spaces** between words in SMSes (e.g. MASTER RESET 3).

SIM entry*	SMS instruction Text	Description
RESET EN 3 (After which, the entry is erased from the SIM)	**MASTER RESET EN 3**	**Mode setting. RESET 3 = GSM pager for cars with an installed car alarm.** Performing the RESET instruction is indicated by 4 beeps. Consequently, all settings, enrolled remote controllers and wireless detectors will be erased.
Not applicable	**MASTER UC uuuu**	**User code setting** – the code allows you to operate the GSM pager remotely via SMS from unauthorized phones. uuuu is a new user code, 4 to 8 letters (A–Z & 0–9, case insensitive). Factory default user code is USER
Not applicable	**MASTER MC xxxx**	**Master code setting** –xxxx is a new master code (A–Z & 0–9, case insensitive). The code allows you to change the maintenance settings for the GSM pager. Factory default master code is MASTER
TEL1 xx...x TEL2 xx...x TEL3 xx...x TEL4 xx...x	**MASTER TEL1 xx...x** **MASTER TEL2 xx...x** **MASTER TEL3 xx...x** **MASTER TEL4 xx...x**	**Setting of phone numbers to report alarms to** (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 into memory TEL2* *MASTER TEL3 0 will erase the memory TEL3.*
DIAL1 xx...x ● DIAL2 xx...x ○ DIALA xx...x 🔒 DIALB xx...x 🔓	**MASTER DIAL1 xx...x** **MASTER DIAL2 xx...x** **MASTER DIALA xx...x** **MASTER DIALB xx...x**	**Setting the phone numbers to dial using Hands free.** *E.g.: MASTER DIAL2 +420602123456 will assign the number to the ○ button of the remote controller. MASTER DIAL2 0 will erase the number assigned to the 🔒 button.*
Not applicable	**MASTER LEARN RC**	**Enrollment of RC-8x controllers -** up to 4 controllers can be enrolled, turn the ignition key on before sending the instruction. To enroll controllers, press and hold buttons 🔒 and 🔓 together for 3 seconds. After you have enrolled all remote controls, turn the ignition key off. By enrolling the first controller all other controllers previously enrolled will be erased. All the desired controllers should be enrolled in a single enrollment session.
DIP abcdefghij	**MASTER DIP abcdefghij**	**DIP parameter entry** – see the DIP table
SET abcdefghij	**MASTER SET abcdefghij**	**SET parameter entry** – see the SET table
TELU xx...x	**MASTER TELU xx...x**	**SIM card validity maintenance call setting** (for pre-paid cards) 1x month the xx..x number is called, call duration 10 s to maintain the validity of SIM cards requiring this.
Not applicable	**MASTER TXT 01,text**	**Modifying SMS messages and instructions** (see chapter 9.1). The maximum length of a single text is 30 characters. *Information texts* (with indices starting at 27) can be modified using the user code USER (optional). To change *instruction texts* (indexed by 01 to 26) the MASTER installation code is **always** necessary.

*It is not possible to modify access codes or SMS texts, or to enroll controllers or detectors by storing numbers in the SIM card phone directory
Always use CAPITAL letters when writing into the SIM card!!!

6 DIP parameters

Parameters A to J correspond to DIP switches. Setting is performed by the SMS command: MASTER DIP ABCDEFGHIJ

DIP	Description	
	0	**1**
A	Not applicable for this mode (a "0" can be entered).	
B	Silent alarm	**Audible alarm**
C	SMS alarm report only	**SMS alarm report and siren sound phone call**
D	SMS remote control not confirmed by SMS reply	**SMS remote control instructions confirmed by SMS reply**
E	Not applicable for this mode (a "0" can be entered).	
F	Not applicable for this mode (a "0" can be entered).	
G	**User can not change SMS Texts**	User can change SMS texts by TXT Sequence
H	Not applicable for this mode (a "0" can be entered).	
I	Enter 2 for the immobilization by an SMS. No other option is available for a GSM pager.	
J	**Self-location disabled**	The car's location will be sent by SMS after an IMO instruction has been performed.

Factory default setting is DIP 1111000000 (bold letters in the text).

7 SET parameters

Parameters A to J correspond to SET switches. Setting is performed by the SMS command: MASTER SET ABCDEFGHIJ

SET	Description	
	0	**1**
A	Not applicable for this mode (a "0" can be entered).	
B	Not applicable for this mode (a "0" can be entered).	
C	Not applicable for this mode (a "0" can be entered).	
D	Instant activation input: **1 = activated by falling edge (grounding)** 2 = activated by rising edge (disconnecting from GND)	
E	INP1 logic: **1 = activated by falling edge (grounding)** 2 = activated by rising edge (disconnecting from GND)	
F	Not applicable for this mode (a "0" can be entered).	
G	Not applicable for this mode (a "0" can be entered).	
H	Not applicable for this mode (a "0" can be entered).	
I	**Do not turn off the GSM module automatically.**	Turn the GSM module off after 30 minutes of inactivity.
J	0 = AUX output is a bus for communication with CR-11A modules **1 = AUX output provides power for external sensors**	

Factory default setting is DIP 1001111101 (bold letters in the text).

If you want to change only particular DIP or SET parameters, enter x for the others.

8 SMS control from an authorized phone

Text SMS	Description
IMO	STOP (immobilize) the vehicle (after turning ignition key off)
UNIMO	Unblock (mobilize) the vehicle
STATUS	Reply with status information, e.g. *GSM pager reports: Time: 27.01.04 13:04, Status: Armed, Unblocked, Ignition of"*.
HELP	The car alarm will reply with a brief list of SMS instructions.
UC xxxx	To change the user code. *xxxx* is the new user code, 4 to 8 characters (A –Z & 0 – 9). Factory default user code is USER
CREDIT parameter	To obtain the balance of a prepaid SIM card if used. See 12.3 for details
AUX parameter	To operate CR-11A output relays as well as the appliances or circuits that are connected to these relays (see par. 13)
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, **(1)**
SIREN	To activate the siren for 30 seconds

- **The instruction must contain spaces** (e.g. HF 105551).
- If an SMS instruction is sent from an **unauthorized phone**, it is necessary to put a user code before the instruction (default is USER). Again, a space is necessary. Example: USER IMO

- SMS instructions are not case-sensitive. 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 adds more 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.
- SMS instructions can be renamed. Example: It is possible to replace "IMO" by "BLOCK".
- The parameters in bold are factory defaults.

8.1 Phone calls by handsfree set (HF-03)

If the HF-03 hands free set is installed, it is possible to receive calls and to dial pre-programmed phone numbers DIAL x. When the **ignition key is on**, an RC-8x allows you to operate the hands free set. A voltage of +12V is required on the ignition key input when a call starts or ends. The call is done via the car alarm's SIM, the handsfree set is not usable for other phones.

Incoming calls – to answer them, press any button on the RC-8x remote control. By pressing any button again, the call will be terminated. Calls can be automatically answered, see the HF instruction manual.

Outgoing calls – when the ignition key is on (i.e. when a voltage of +12V is present on its input), the RC-8x allows you to call up to 4 pre-programmed numbers (see the configuration table).

If the ignition key is off (i.e. no voltage of +12V is present on its input), all incoming calls are automatically rejected. If the car is immobilized all calls are automatically answered (it is possible to listen in).

8.2 Alarm

When an alarm is triggered, the siren output will be switched on for 30 sec., warning SMS messages will be sent to all phones (TEL1 to TEL4). Subsequently, these phones will also be called by the GSM pager. If automatic location is turned on, a request for location detection is sent.

The LED indicates the alarm for 2 minutes. To activate inputs subsequently, an interval of at least two minutes is required.

To stop the alarm, disarm the alarm by pressing the ➊ button on the remote control.

Example of an alarm SMS:
> *Your car reports: Alarm, INP activation, Time 10.12.04 01:45*

9 Editing SMS texts

The SMS texts (alarm information and instructions) are factory pre-programmed. However, it is possible to change these texts using a mobile phone or via the www.GSMLink.cz internet page. This makes communication convenient for the user.

To change text by mobile phone, send an SMS as below. A single SMS enables you to specify changes to several texts. Terminate each text with a comma:

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 03,BLOCK PLEASE

Text numbers 01 to 26 are instructions requiring a MASTER code for their modification. If you modify these texts, you change the instructions which the GSM pager will respond to. For example, replacing "STATUS" with "STATE PASSWORD" will cause state detection to be only obtainable by "STATE PASSWORD". This way you can **insert a "password"** into the texts which prevents misuse. All other texts are of informational character and correspond to particular events, states and input names. This allows you to adjust the names to a form which suits you well. For example, "INP 1" can be replaced with "bonnet" etc. Texts can be replaced using the MASTER code as well as the USER code (optional).

A convenient way for text modification is to use the GSMLink web page, see paragraph 10.

9.1 SMS text table

Zz	Factory default text	zz	Factory default text
SMS commands:		48	Telephone 4
01	AM	49	Telephone - UC
02	DM	50	Telephone - MC
03	IMO	51	Wireless detector 1
04	UNIMO	52	Wireless detector 2
05	STATUS	53	Wireless detector 3
06	HELP	54	Wireless detector 4
07	CREDIT	55	Wireless detector 5
08	DIAL	56	Wireless detector 6
09	HF	57	Wireless detector 7
10	LOCATOR	58	Wireless detector 8
11	MC	59	Wireless controller 1
12	UC	60	Wireless controller 2
13	DIP	61	Wireless controller 3
14	TEL	62	Wireless controller 4
15	LEARN	**Status information:**	
16	SIREN	64	Car alarm reports
17	SET	65	Status:
18	AUXA	66	Armed
19	AUXB	67	Disarmed
25	ON	68	Ignition key ON
26	OFF	69	Ignition key OFF
Events:		70	Engine is blocked
30	Alarm	71	Engine is unblocked
31	Alarm cancelled by a user	72	No alarm
32	Fire alarm	73	Alarm timeout
33	Tamper alarm	74	Low battery voltage
34	Disarming	75	Power failure
35	Arming	76	Power recovery
36	Low battery voltage	77	Time
37	Engine is blocked	79	Partially
38	Engine is unblocked	**Confirmation SMS:**	
Source:		81	Command accepted
40	Ignition key	82	Command syntax error
41	Door contact	83	New MC code:
42	INP1 activation	84	New UC code:
43	INP2 activation	85	Reset
44	Low battery voltage sensor	86	Registered phone number:
45	Telephone 1	87	Credit:
46	Telephone 2	88	LEARN mode, enrolled
47	Telephone 3		

The grey-tinted items are not available for RESET 3 mode. *Use only ASCII character set during the text editing.*

10 Internet remote access

The web site **www.GSMLink.cz** enables remote control (to users) and setting (to installers) of the GSM pager.

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 Central monitoring station communication

The GSM communicator 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 communications, it will indicate an alarm at the CMS.

12 Additional features

12.1 Remote siren activation

You can operate the siren remotely by the SIREN instructions. These instructions are accepted from all authorized (stored) phone numbers. Commands are also accepted from any unknown phone number if they start with the USER code.

Instruction	Status
SIREN ON	activates SIR output permanently
SIREN OFF	deactivate SIR output
SIREN	activates SIR output for 30 sec.
SIREN xxM or SIREN xxxS	xxM – is the numeric value of the duration of SIR output activation, in minutes xxxS – as above, but in seconds.

12.2 LED indicator signals

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

12.3 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 the 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 GSM pager 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.

12.4 Roaming

If you travel abroad and your SIM card supports roaming, the pager will work there too except for the LOCATOR and CREDIT functions and GPRS data communication which will not be available.

12.5 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.

12.6 Service instruction

The DINFO instruction allows you to obtain current settings, information about the quality of the GSM signal, the registration code for GSMLink devices and some other parameters. This command always requires the Master code.

Example of instruction: **MASTER DINFO**
Example of response: Car alarm reports: CA-1802A, SN:123456, SV:01, LV:03, RK:ABCDE-12345-FG67, R:01, GSM:25, Time:3.2.06 11:35

CA-1802A	*car alarm version*
SN:123456	*identification number of the product*
SV:01	*software version*
LV:03	*language version*
RK: ABCDE-12345-FG67	*registration code for GSMLink*
R:01	*current Reset mode of the device*
GSM:25	*instant quality of GSM signal (ranging from 0 to 32 (best))*

13 AUX output

AUX output can be set to the following mode.
AUX bus – this mode allows you to connect up to four CR-11A modules to the bus. This enables you to extend car alarm functionality via the power output. There are two outputs available: A and B. They can be operated by pressing two buttons together on the key fob RC-8x (see instructions to CR-11A), or using SMS instructions. This allows you to operate independent heating, refrigerators, flashing lights etc.). The car must not be immobilized by use of this module, because the output reacts to incoming SMS instructions in every state of the car alarm, in particular, while the car is on the run, thus possibly not under the user's control which could cause a traffic accident.

Instruction	Status
AUXA (B)	Relay switches on for 1 second
AUXA ON (OFF) AUXB ON (OFF)	ON - Switch on permanently* OFF – Switch off permanently*
AUXA xxM in xxxS AUXB xxM in xxxS	xxM – numeric value of requested duration of the relay to be switched on, in minutes xxxS – as above, in seconds

Example of an instruction to switch B relay on for 30 seconds:

    AUXB 30S

* Maximum switch-on time is 60 minutes.
* If a relay (A or B) is switched on while arming, it will be switched off. In addition, the A relay, when switched on, will also be switched off while disarming.

14 The back-up battery and voltage monitoring

To handle an absence of supply voltage in the car (disconnecting the main battery, deliberate damage etc.) the car alarm is equipped with a BB-02 backup battery. The battery supplies the car alarm when no supply voltage is present (for 5 hours minimum). Except for the acoustic siren, the BB-02 backs-up all the functions of the car alarm. The car alarm is supplied with a small current from the BB-02. Fully charging a

fully discharged battery requires 5 days. In the case of a supply voltage outage, the BB-02 starts to generate a voltage either for the outage duration or until it is completely discharged. While testing it or being handled, it is possible to protect the backup battery from being completely discharged by briefly shorting the BB-02's terminals (the BB-02 has to be disconnected from the power supply). This causes disconnection of the electronics inside the back-up battery. In the case of switch-over to BB-02 operation (after a voltage drop under 8.5V or after complete disconnection of the battery), an SMS will be sent with information about backup battery operation. After the backup battery voltage drops under 4V, an SMS will be sent about the backup battery being discharged. An SMS will also be sent after the recovery of the main power supply voltage (at least 10 minutes).

15 Emergency RESET

In the case of an emergency, when no installation MASTER code is available, it is possible to perform an emergency RESET of the car alarm even without the code. Such a reset causes the car alarm to be set to factory defaults, including access codes (stated in the manual). Caution: all pre-programmed numbers, Locator parameters, DIP and SET parameters will be deleted. You perform an emergency reset as follows: Turn the power supply (including back-up battery, if any) off. Pull the SIM card out of the car alarm and insert it into a phone, enter "RESET" as a name into the SIM card's phone directory, and enter "0" for the corresponding phone number. Insert the SIM card back into the car alarm and turn the power supply on. The reset is indicated by 4 beeps.

Please contact us by phoning +420 483 559 987. You can also e-mail us your suggestions to improve our services and products to *auto@jablotron.cz*.

16 Specification

Power supply	12-24V DC (8-32V)
Stand-by consumption	max. 20 mA
Max. consumption (during GSM communication)	1 A
GSM band	E-GSM / GPRS 900/1800MHz
Transmitted power	2 W for GSM900, 1 W for GSM1800
Frequency RX	868.5MHz
Operational temperature	-20°C to +70°C
Output SIR	+12V (24V), max. load 1.3A
Immobilization	8A permanently, 12A intermittently
Central locking outputs	max. 200mA, to GND
	pulses 0.5s, 4s or 60s (optional)
Complies with	ECE Regulation No. 97.01
Can be operated according to ERC/DEC98(20,21), ERC REC 70-03	
Safety	EN 60950
EMC	EN 55022, EN 50130-4
Radio interference	ETSI EN 301419-1, EN 301511, ETSI EN 300220

E8 97 RAI-01 4532

CE

JABLOTRON ALARMS a.s. hereby declares that the CA-1802 is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.
Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use.