

SERA

GTalarm v1 configuration and testing software in Microsoft Windows environment

	User's guide					
🥶 SERA - [GTALARM configu	ration]					
<u>File Setup Devices Update</u>	Help					
🖂 🔙 🔍 🚳 🕃 🗄						
STALARM Configuration						
System Options GSM Communications USERS&Remote Control Outputs Inputs Service SMS Text Custom SMS Text Testing and Diagnostic	System Options GSM Alarm - Access Control Security System Installer Password ****** (6 symbols) Auto - reARM User Password ****** (6 symbols) Siren Peep on ARM/DISARM Temperature Scale Celcijus S ARM/DISARM Method iButton Access ID On Touch Input Learn iButtons					
	System Timers Test Time Test Time 1 Days (0=disabled) Entry Delay 5 s Set Module Clock PC time: 16/11/2010 21:02:56 Siren Time 120 Reset Module Reset Module					
COM3 is opened COM3 is closed COM3 is opened SystemTime10xDA/0x0710x0B10x1010x1510x025 COM3 is closed						



Content

1.	Inst	allation of SERA software	2			
2.	USB drivers installation					
3.	CO	M port number setting	10			
4.	Cor	nnection of the module to your PC	12			
5.	Wo	rk with the software SERA	12			
4	5.1.	Content of the module configuration	14			
4	5.2.	Main Window of the software SERA (System options)	15			
4	5.3.	Window [GSM communication options]	18			
4	5.4.	Remote Control by Dialling (Remote Control by Dialling)	19			
4	5.5.	Window [Outputs]	20			
4	5.6.	Window [Inputs]	22			
4	5.7.	Window "Service text summary"	27			
4	5.8.	Window [Text summary]	28			
4	5.9.	Window [Testing and Diagnostic window]	29			
6.	Sav	ving of GTAUTO module configuration into PC	31			
7.	Inst	talling of saved configuration into the module GTAUTO	31			
8.	Upo	dating of GTAUTO software version	33			

1. Installation of SERA software

Open the folder containing installation of the software SERA. Click the file "SERA setup.exe" from the mentioned folder.



In the displayed Window Fig. 1 press [Next>].

🙀 SERA co	nfiguration program - InstallShield Wizard	×		
Destination Folder Click Next to install to this folder, or click Change to install to a different folder.				
	Install SERA configuration program to: C:\Program Files\topkodas\SERA\			
InstallShield —	< <u>Back</u> <u>Next</u> Cancel			

Installation directory will be displayed in the Window Fig. 2 (fig.2). If installation directory of the software is OK, press [Next]. If you would like to install the software in the other directory press [Change], specify other installation directory and then press Next>.

🛃 SERA configuration program - InstallShield Wizard				
Ready to Install the Program The wizard is ready to begin installation.	1			
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:				
Setup Type:				
Destination Folder:				
C:\Program Files\topkodas\SERA\				
User Information:				
Name: D				
Company:				
InstallShield				
< <u>B</u> ack <u>Install</u> Cancel				
Fig. 3				

Check if the correct data are entered and press Install in the displayed Window (Fig. 3) (Fig.3).



Fig. 4

After successful installation of the software SERA, press [Finish] in the displayed WindowFig. 4.

Congratulations, you have successfully installed the application SERA in your PC.

2. USB drivers installation

In order to configure the module via USB interface, it is necessary to install USB DRIVER. Drive configuration is available in the file usbser.inf

After connection of USB cable (the module must be supplied with + 12V) to the PC via USB interface, OS Windows will find USB driver.

Driver configu	ration:		
Winows 2000/	/XP	usbser.inf	f .
Windows 7 x8	6 or x64	usbser_x8	86_x64.inf
	Found New Har	dware Wiza	ard
			Welcome to the Found New Hardware Wizard
			Read our privacy policy
			Can Windows connect to Windows Update to search for software?
			○ Yes, this time only
			Yes, now and every time I connect a device
			 No, not this time
			Click Next to continue.
			< Back Next > Cancel

Fig. 5

Select ["No, not this time"] in the displayed Window (Fig.5) and press ["Next>"].

Hardware Update Wizard				
	Welcome to the Hardware Update Wizard			
	This wizard helps you install software for:			
	USBSerial			
	If your hardware came with an installation CD or floppy disk, insert it now.			
	What do you want the wizard to do?			
	O Install the software automatically (Recommended)			
	Install from a list or specific location (Advanced)			
	Click Next to continue.			
	< <u>B</u> ack <u>N</u> ext > Cancel			

Fig. 6

Select "Install from a list or specific location (Advanced)" and press "Next>" in the displayed Window (Fig.6).

Hardware Update Wizard			
Please choose your search and installation	on options.		
Search for the best driver in these location	าร.		
Use the check boxes below to limit or expa paths and removable media. The best driv	and the default sea er found will be ins	arch, which in stalled.	cludes local
🔽 Search removable <u>m</u> edia (floppy, C	D-ROM)		
Include this location in the search:			
I:\Darbas\GT4		▼ Bro	IWSE
Don't search. I will choose the driver to in	stall.		
Choose this option to select the device dri the driver you choose will be the best mate	ver from a list. Wir ch for your hardwa	ndows does n re.	ot guarantee that
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Fig. 7 In the displayed Window (fig. 7) select : Don't search I will choose the driver to install. Press Next>

Found New Hardware Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
USB Serial Config
Image: This driver is not digitally signed! Have Disk Tell me why driver signing is important Have Disk
< <u>B</u> ack Cancel

Press Have Disk button

Locate File							? ×
Look jn	: 🗢 Removabl	le Disk (F:)		•	G 🦻	•111 🥙	
My Recent Documents Desktop My Documents My Computer	usbser_x86	o_x64.inf					
My Network Places	File <u>n</u> ame:	usbser	_x86_x64.inf			•	<u>O</u> pen
	Files of <u>type</u> :	Setup	Information (*.inf)		7	Cancel
Select driver file:							

Windows XP Windows 7 x86 or x64

usbser.inf . usbser_x86_x64.inf

ound New Hardware Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show <u>c</u> ompatible hardware
Model USB Serial Config
This driver is not digitally signed! Have Disk Tell me why driver signing is important Have Disk
< <u>B</u> ack <u>N</u> ext > Cancel

Press Next

Hardware	Installation
<u>.</u>	The software you are installing for this hardware: USB Serial Config has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Press Continue Anyway

Found New Hardware Wizard					
Please wait while the wizard installs the software					
USB Serial Config					
usbser.sys To C:\WINDOWS\system32	NDRIVERS				
	< <u>B</u> ack. <u>N</u> ext > Cancel				

Wait while the driver will be installed

Found New Hardware Wizard		
	Completing the Found New Hardware Wizard	
	The wizard has finished installing the software for:	
	USB Serial Converter	
	Click Finish to close the wizard.	
	< <u>B</u> ack Finish Cancel	

Fig. 8 Displayed Window (fig.8) means that your PC has found file necessary for driver's installation and successfully installed it. Press Finish Installation of USB Serial Config is finished.



Attention! After installation of USB driver, it is necessary to restart the PC.

Ele Action Yiew Help	🚇 Device Manager	
Image: Constraint of the second se	Eile Action View Help	
Realtek RTL8169/8110 Family Gigabit Ethernet NIC Other devices Modem Device on High Definition Audio Bus Ports (COM & LPT) BT Port (COM10) BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) ISB Serial Config (COM3) Encessors		
 Other devices Modem Device on High Definition Audio Bus Ports (COM & LPT) BT Port (COM10) BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM41) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM3) Secure Digital bost controllers 	Realtek RTL8169/8110 Family Gigabit Ethernet NIC	
Modem Device on High Definition Audio Bus Ports (COM & LPT) BT Port (COM10) BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM40) BT Port (COM41) BT Port (COM43) BT Port (COM43) BT Port (COM5) BT Port (COM7) USB Serial Config (COM3) Processors Secure Digital bost controllers	📄 🖓 Other devices	
Ports (COM & LPT) BT Port (COM10) BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) Processors	🔤 🚰 Modem Device on High Definition Audio Bus	
BT Port (COM10) BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) Processors Processors	🛱 🖓 Ports (COM & LPT)	
BT Port (COM11) BT Port (COM12) BT Port (COM13) BT Port (COM20) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) Processors Secure Disital bost controllers	BT Port (COM10)	
BT Port (COM12) BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) Processors BT Port Secure Digital bost controllers	BT Port (COM11)	
BT Port (COM13) BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) BT Processors Bt Port Compatel bost controllers	BT Port (COM12)	
BT Port (COM14) BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) BT Processors Back Processors	BT Port (COM13)	
BT Port (COM20) BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) BT Processors Back Processors	BT Port (COM14)	
BT Port (COM21) BT Port (COM40) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) EL Processors EL Secure Digital bost controllers	BT Port (COM20)	
BT Port (COM40) BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM7) ISB Serial Config (COM3) EI-Secure Digital bost controllers	BT Port (COM21)	
BT Port (COM41) BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) EI-Secure Digital bost controllers	BT Port (COM40)	
BT Port (COM42) BT Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) BT Processors But Secure Digital bost controllers	BT Port (COM41)	
BI Port (COM43) BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) BI Processors Bi Secure Digital bost controllers	BT Port (COM42)	
BT Port (COM6) BT Port (COM7) USB Serial Config (COM3) B - Processors B - Secure Digital bost controllers	BT Port (COM43)	
USB Serial Config (COM3)	BI Port (COM6)	
Secure Digital bost controllers	BI Port (COM/)	
H- Secure Digital bost controllers	USB Serial Config (COM3)	
+	Environ Processors	
E System devices		_
	I I I I I I I I I I I I I I I I I I I	

Open Device Manager window and in the row (COM&LPT) press + in order to see all PC COM ports. The row should show USB Serial Config (COMx). Drag mouse cursor on this row and right click on the menu item Properties. <u>You should see the window below with the note: "This device is working properly"</u>. This means that PC is successfully prepared for operation with configuration-testing application "SERA".

-		0 11		
USB Serial	Config (COM3) F	Properties		<u>? ×</u>
General	Port Settings Dri	ver Details		
Ţ	USB Serial Config) (COM3)		
	Device type:	Ports (COM & LP	T)	
	Manufacturer:	USBConfig		
	Location:	Location 0 (USB:	Serial)	
Devic This If you start	e status device is working p u are having probler the troubleshooter.	roperly. ns with this device,	click Troublesho	ot to
<u>D</u> evice	usage:			
Use thi	is device (enable)			_
			ОК	Cancel

3. COM port number setting.

After installing drivers you should check what COM port number has been assigned to the USB module. To perform this task in Windows environment follow the instructions mentioned below.



Attention! The module should be connected to +12V and to a PC via USB interface. DO NOT power the module from PC power supply unit, because absence of common grounding between two PC power supply units may damage the module.

Open the Window [System Properties] (path: Start > Control Panel > System). [System Properties] Window (Fig. 9) is being displayed.

From the Window [System properties] select the tab [Hardware]. After selection of the tab [Hardware] Window (Fig. 9) will be displayed.

System Properties 🛛 🕐 🔀				
Sustem Bestore Automatic Undates Bemote				
General Computer Name Hardware Advanced				
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager				
Drivers Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers. Driver Signing Windows Update				
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations.				
Hardware Profiles				
OK Cancel Apply				
Fig. 9				

Select [Device Manager] from the tab [Hardware]. Window (Fig. 10) will be displayed.



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Attention! If the module GTalarm is not powered with +12V and it is not connected to the PC via USB interface, menu [Ports (COM & LPT)] item [USB Serial Config (COMx)] will not be visible.

In [Device Manager] Window click ",+" symbol near [Ports (COM & LPT)] in order to scroll [Ports (COM & LPT)] menu. If the module is powered with +12V and it is connected to the PC via USB port, thus upon scrolling Ports (COM & LPT), Window (Fig. 11) will be displayed.

Eile Action View Help	
Imaging devices Imaging devices	
Ports (COM & LPT) USB Serial Port (COM1) USB Serial Port (COM2) Processors System devices Sound, video and game controllers Universal Serial Bus controllers	

Fig. 11

From the displayed Window (Fig. 11) you must check what COM port is assigned to USB interface. [USB Serial Port (COM3)] is displayed in the example. This means that USB will be assigned to the third COM port. Remember this COM port number and proceed with the clause Work with the software SERA

4. Connection of the module to your PC

The module must be powered with (+12V > 500mA) voltage, it should have inserted SIM card (with replenished account and removed **PIN CODE REQUEST**), connected GSM and GPS antennas and the module must be connected to the PC via programming cable.



5. Work with the software SERA

Start the software SERA. Go to "Start" > "All programs" > "Topkodas" > "SERA" > "SERA" or go to installation directory and click "SERA.exe".



If you are sure that the module is fully connected to PC and power supply, please go to Devices > GTalarm v1. (Fig. 13)

File	Setup	Devices	Update	Help
		GTau	ito v3	
		GTau	ito v4	
		GTGPS v1		
		GTALARM v1		
Fig. 13				

After you make a selection, configuration window (System Options) will be opened (Fig. 14)

🥌 SERA - [GTALARM configur	ation]
<u>File S</u> etup <u>D</u> evices <u>U</u> pdate	Help
STALARM Configuration	
System Options GSM Communications USERS&Remote Control Outputs Inputs Service SMS Text Custom SMS Text Testing and Diagnostic	System Options GSM Alarm - Access Control Security System Installer Password ****** (6 symbols) Auto - reARM User Password ****** (6 symbols) Siren Peep on ARM/DISARM Temperature Scale Celcijus ADMDIS ADMANTANA BUTTON Access ID On Touch Input
	ARM/DISARM Method Carrier Correction of the definition o
COM3 is opened COM3 is closed COM3 is opened SystemTime\0xDA\0x07\0x0B\0x10 COM3 is closed	0/0×15/0×025
	COM3 Disconnected GTALARM v1 101114
	F1g. 14

Set the COM port to initialize. Go to [Setup] > [Serial Port...] (Fig. 15).

File	Edit	Setup	Devices	Update	Help
	😴 Serial Port				
Fig. 15					

Window [Serial Port Setup] should be displayed (Fig. 16). Scroll the list and select COM port, you saw in [Device Manager] window. In the example the port USB Serial Config (COM3) was assigned to the module. Therefore select from the list COM3 and press OK.



Attention! If you do not know the COM port you have connected the module, please open Device Manager and read the chapter: 3 Selection of COM port

Serial Port Setup			
COM3 (VDevice/USBSER000)	•	ок	

Fig. 16

Upon setting COM port, information of the module should be read out. Go to File > Read Device or press Read Configuration icon (Fig. 17)

😻 SERA	[GTauto con	figuratio	n]
File Edit	Setup Device	s Update	Help
	XBB	8	3 3
🎯 GTau	to Configuration		Read Configuration
		Fig. 17	Read Configuration icon

 \wedge

Attention! Each time after configuring the module press [File] > [Write Device] or press Send Configuration icon (Fig. 18) thus the software SERA will include configuration changes into the module!



Fig. 18 Send Configuration icon.

5.1. Content of the module configuration



Fig. 19

Configuration content is available at the side of the screen. To open configuration window according to selected content menu, click preferred part of the content.

5.2. Main Window of the software SERA (System options)

Main Window (System Option) of the software SERA is displayed in Fig. (Fig. 20) This Window is displayed automatically when the GTalarm device is selected ([Devices] > GTalarm v1). It also may be selected from the content of the module.

System Options	
GSM Alarm - Acc	ess Control Security System
Installer Password ****** (6 symbols) User Password ****** (6 symbols) Temperature Scale Celcijus	 Auto - reARM Image: Auto - reARM
ARM/DISARM Method Button Access ID On To	buch Input
System Timers Test Time 14:30 Test Period 1 Days (0=disabled)	
Exit Delay 10 s	Set Module Clock PC time: 16/11/2010 21:05:23
Siren Time 120 s	Read Module Clock Module Time: 16/11/2010 21:02:53
	Reset Module

Fig. 20

Explanation of fields of Main Window:	0
Installer password	It is installer password comprised of 6 symbols, when the module is being configured via SMS messages. See INST codes table.
User password	It is installer password comprised of 6 symbols, each time the module is being controlled via SMS messages. See USER code table.
Temperature	 It is temperature scale. Two scale types are possible, one of which may be selected after scrolling menu near the note "Temperature": Celsius – temperature indications according to Celsius scale. Fahrenheit – temperature indications according to Fahrenheit scale.
ARM/DISARM method (Touch input)	 When connecting the module to the central lock, it is necessary to set signals the module will enter ARM/DISARM modes. 5 versions is possible: Disable – programmable block of LOCK and UNLOCK inputs. The module will show no reaction towards signals in LOCK and UNLOCK inputs. >500ms Positive Pulse On Touch input - If in input "Touch" >500ms the impulse will appear into +V, the security system's state will be changed from ARM to DISARM or wise versa. >500ms Negative Pulse On Touch input - If in input "Touch" >500ms the impulse will appear into +V, the security system's state will be changed from ARM to DISARM or wise versa.

	DISARM or wise versa.
	Positive Level ARM/Negative Level DISARM On
	Touch input . When in input "Touch" is
	a positive level +V, the state of the
	module will be ARM. When negative level
	- V, the state of the module will be DISARM.
	Positive Level ARM/Negative Level DISARM
	On Touch input . When in input
	"Touch" is a positive level -V, the state
	of the module will be ARM. When
	negative level - V, the state of the module
	will be DISARM.
	• 5th mode (iButton Access ID On Touch Input)
	uses "Touch" input. System state
	Dalass/Maxim iButton key (iButton
	Datass/Maxim induction Key. (induction DS1990A - 64 Bit ID)
Learn iButtons	After pressing this button, the module will enter iButton keys
	associating mode. In this mode the module will enter into
	memory all touched keys, which will be able to control the
	module.
Test time	The time period since which informational SMS text message
	Will be sent.
	it is necessary to adjust settings of internal clock of the module
Test Period	Test sending periodicity in 24 hours
Entry Delay	Input time in seconds. The system starts calculating this
	time period after Delay type zone breaking. If during
	that time the security system will not be disarmed. The module
	will activate alarm state. i.e. siren will be switch on and SMS
	will be sending about alarmed zones.
Entry Delay	It is insensibility time (seconds) of the module into
	Delay and Interior type inputs before the module
	enters to ARM mode. This means that during calculation
	of this time period, the module will not activate alarm even if
	inputs will be activated.
Siren Time	This time value specifies how long the Siren of security system
	will be active after occurrence of alarm. Time period should be
	set in seconds from 1 sec to 999 sec.
Siren Peep on ARM/DISARM	When the function is active and the security system is turned
	DISARM state, siren will been twice
Auto re-ARM	Automated activation of the system if a door has nor been
	closed after DISARMing the system.
Temperature	It is temperature scale. Two scale types are possible, one of
	which may be selected after scrolling menu near the note
	"Temperature":
	Celsius – temperature indications according to Celsius
	scale.
	• ramenment – temperature indications according to Ephrenheit scale
Hardware details	This is info about GTalarm module:
	• HW – hardware version of the module
	Boot - start up program version (ROOT) This
	- boor start up program version (boor) fills nart of the program is able to undate Firmware SW
	• SW – Firmware version of the module
Set Module Clock (button)	Sets module's clock according to PC time
Set Louis Crock (Sutton)	Attention! Upon failure of power supply voltage. the
	module's clock should be reset

Read Module Clock (button)	Sets the module's RTC Real Time Clock				
Reset Module (button)	This function operates as programmable function of the				
	module "RESET". This function operates similarly as actual				
	built-in RESET module. If this function will not operate, in the				
	event USB Serial Port is not open or FW program of the				
	module is not functioning properly.				

5.3. Window [GSM communication options]

In order to open Window [GSM SMS and DIAL communication options] it is necessary to select "GSM Communication" clause Fig. 19 from the left side. The Window Fig. 21 including user table whom GSM SMS messages are being sent and calls are being made. User number up to 16 Double click on the selected line will show selected user window Fig. 22to set what events should be sent to the specified number.

User numbers should be entered with international code. Near the telephone number of each user, check boxes which events will be sent to that user.



Fig. 21



Explanation of fields of [GSM communication options] Window:

ID	ID of the user to whom send SMS and make a call.		
User Phone SMS and DIAL	This column includes user numbers to whom GSM SMS		
	messages will be sent and short calls will be made. User		
	number should be entered with international code.		
Sending SMS (Alarm/Restore)	The events with check boxes will be send to selected		
	users via SMS		
Dialling to USER (Alarm/Restore)	A user will be notified about these events (the check bow		
	should be checked) by making him a short call		
SMS error limit	SMS repetition limit in a case of failure to send SMS.		
Limit of dialling	It is a figure, which specifies how many times to call to a		
	user's telephone number, in the event of alarm or if a user		
	does not cancel call of the module. If a user after 15 sec		
	will reject a call, the module will stop making calls till		
	another event.		

5.4. Remote Control by Dialling (Remote Control by Dialling)

To open Window [Remote Control by Dialling], it is necessary to select [GSM Remote Control]. A window Fig. 23 will be displayed including users table. These users would be able to control the module by dialling. The module will identify caller ID and if this ID will be available in the table, the module will perform selected action. It is possible to select few actions for one number, however some of these actions may disturb each other. In such case the microphone will not be able to turn on, because when sending SMS message, the module will automatically terminate the call.

F	Remote Control Users table												
	Ι	ID	User Phone	User Phone iButton					Arm/Disarm	MIC			
	I	1	+140524248924	3C0005F00000					~				
		2	+	000000000000000									
		3	+	0000000000000000									
		4	+	0000000000000000									
		5	+	0000000000000000									
		6	+	0000000000000000								R	
		7	+	0000000000000000									
		8	+	0000000000000000									
		9	+	0000000000000000									
		10	+	0000000000000000									
		11	+	0000000000000000									
		12	+	0000000000000000									
		13	+	0000000000000000									
		14	+	0000000000000000									
		15	+	0000000000000000									
		16	+	000000000000000							-		

The number of users - up to 400

length of fight of the

D---

Fig. 23

D · 11 ·

Explanation of fields of [Remote Control by Dialing]:		
ID	ID number of a user who is able to control the module by		
	dialling up to 400.		
User Phone	Telephone numbers of users who will be able to control		
	the module by dialling should be entered in this column.		
	User number should be entered with international code.		
iButton	iButton Maxim iButton key DS1990A - 64 Bit ID code.		
	Might be entered manually or automatically registered		
	after the module enters keys association mode. In order to		
	delete the code, it is necessary to enter 00000000000		
OUT1, OUT2,OUT3,OUT4	Where the check boxes are checked, these inputs will be		
	switched, if a user will call from this number. Preferred		
	input may be assigned to each user's number. Thus		
	different users are able to control different objects.		
ARM/DISARM command.	If this check box is checked, a user will be able to		
	ARM/DISARM the security system by dialling.		
MIC	If this check box is checked, a user will be able to activate		
	microphone and to switch on voice listening.		

5.5. Window [Outputs]

In order to open Window [Outputs], it is necessary to select [Outputs] option.

	ID	Name	Out ON SMS text	Out OFF SMS text	Out definition	Out pulse time	Invert	State Mode	
	1	Out1	Out1ON .	Out1 OFF .	CTRL/SMS/DIAL	15s		Pulse	
	2	Out2	Out2ON .	Out2 OFF .	SIREN	600s	✓	Steady	
	3	Out3	Out3ON .	Out3 OFF .	ARM state	600s		Steady	
	4	Out4	Out4 ON .	Out4 OFF .	Light Flash	600s		Steady	
									-
1									_

Fig. 24

	ID	Name	Out ON SMS text	Out OFF SMS text	Out definition	Out pulse time	Invert	State Mode
Þ	1	Out1	Out1 ON .	Out1 OFF .	CTRL/SMS/DIAL	15s		Pulse
	2	Out2	Out2 ON .	Out2 OFF .	CTRL/SMS/DIAL	600s	◄	Steady
	3	Out3	Out3 ON .	Out3 OFF .	ISIREN BUZZER	600s		Steady
	4	Out4	Out4 ON .	Out4 OFF .	ARM state	600s		Steady
		-	- -	~	Inputs OK Light Flash		-	

Fig. 25

	ID	Name	Out ON SMS text	Out OFF SMS text	Out definition	Out pulse time	Invert	State Mode
	1	Out1	Out1 ON .	Out1 OFF .	CTRL/SMS/DIAL	15s		Pulse
▶	2	Out2	Out2 ON .	Out2 OFF .	SIREN	600s	•	Steady 💌
	3	Out3	Out3 ON .	Out3 OFF .	ARM state	600s		Pulse
	4	Out4	Out4 ON .	Out4 OFF .	Light Flash	600s		Steady Steady

Fig. 26

Explanation of fields of [Outputs] Window: ID Output ID number Name Output name Out ON text It is a text, which will be sent to a user after activation of output by the module. This text may be changed. Out OFF text It is a text, which will be sent to a user after deactivation of output by the module. This text may be changed. Out definition Output activity algorithm may be selected from scrolled menu, see Fig. 25:

Out pulse time	 CTRL/SMS/DIAL – output will be possible to control via SMS message, short call or commutation via selected input. This algorithm may be used for ignition blocking, for gate control or for remoter starting of a car etc. SIREN – output used for connection of siren. Used for generating of voice signal in the event of alarm. BUZER – sound signalling device. In the event of zone alarm - beeps continuously. When security system starts calculating exit delay, the user is able to hear short, repetitive sound signals. When 10 seconds are left till the begging of activation, signals are being repeated each 0.5 seconds. If after expiry of the delay time, all zones remain unalarmed, the system turns into ARM state along with beep sound to confirm the action. ARM State – state of alarm system ARM/DISARM. May be used for light indication. When the output is set to operate in pulse mode, this feature may be used to close car windows or sunroof on arming. Impulse time should be set 20-30 seconds. On arming the output will generate signal to close windows. Inputs OK - if any of zones is disturbed, the output will be alarmed. This feature is usually used for indication whether all zones are in order. Light Flash – used for connection of light signal. Upon alarm of the security system. This feature may be applied to connect car direction signals.
	impulse, when Pulse type is being selected in the column [State Mode]
Invert	Option to invert the output. If the check box is to be checked, the output will work as inverted.
State mode	Output commutation type see Fig. 26
	 Pulse – the output will work in pulse mode. Pulse time (seconds) should be set in [Out pulse time] column. Steady – output will work on the steady level till the next commutation.

5.6. Window [Inputs]

In order to open Inputs window, it is necessary to select Input. All input parameters are being described in this window. Double click on the selected line in order to open input settings window see Fig. 31

In	Input Name	Alarm text	Restore text	Alarm	Restore	nput Type
1	Input 1	Door Alarm	Door Closed			EOL
2	Input 2	PIR1 Alarm	PIR1 Restore			EOL
3	Input 3	PIR2 Alarm	PIR2 Restore			EOL
4	Input 4	Glass Break	Glass Break			EOL
5	Input 5	Fire Alarm	Fire Restore			EOL
6	Input 6	Panic Button	Panic Button			EOL
7	Input 7	Tamper Alarm	Tamper Restore			EOL
8	Battery	Low Batery .	Batery Restore			NC
9	Temperature	Low Temperature.	Temp Restore .	V	V	NC
						•

Fig. 27

Input Name	Alarm text	Restore text	Alarm	Restore	Input Type
Input 1	Door Alarm	Door Closed		•	EOL 💌
Input 2	PIR1 Alarm	PIR1 Restore			NO
Input 3	PIR2 Alarm	PIR2 Restore			- NC EOI
Input 4	Glass Break	Glass Break			EOL
Input 5	Fire Alarm	Fire Restore			EOL
Input 6	Panic Button	Panic Button			EOL
Input 7	Tamper Alarm	Tamper Restore		•	EOL
Battery	Low Batery .	Batery Restore	•	•	NC
Temperature	Low Temperature.	Temp Restore		v	NC

Fig. 28

	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action	
	V	•	EOL	delay 🚽	200ms	1s	Disable	
			EOL	delay	200ms	1s	Disable	
			EOL	interior instant	200ms	1s	Disable	
			EOL	24 hours	200ms	1s	Disable	
			EOL	silent	200ms	1s	Disable	
			EOL	Tire Sileria	200ms	1s	Disable	
		V	EOL	24 hours	200ms	1s	Disable	
		V	NC	silent	65000ms	6000s	Disable	
		V	NC	silent	65000ms	6000s	Disable	
•								▼

Fig.	29
------	----

	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action	
	V	V	EOL	delay	200ms	1s	Disable 🛛 💌	
			EOL	interior	200ms	1s	Disable	13
			EOL	instant	200ms	1s		
	•		EOL	instant	200ms	1s	OUT3	
	•		EOL	fire	200ms	1s	OUT4	
	•		EOL	silent	200ms	1s	Disable	
	•	•	EOL	24 hours	200ms	1s	Disable	
	V	•	NC	silent	65000ms	6000s	Disable	
Þ	V	•	NC	silent	65000ms	6000s	Disable	
•								•

Fig. 30

INPUT 1 Settings	×
Instant Zone Definition	NO Zone Type
Luggage opened .	Alarm SMS Text
Luggage closed .	Restore SMS Text
Zone Options C Alarm Enabled Zone Speed Restore Enabled Event Repeat Timeor Zone Action	200ms ms ut 60s s Disable
	ок

Fig. 31

Explanation of fields of [Inputs] window:

In	Input number
Input Name	Input name
Alarm text	It is the text, which will be received by a user after alarm
	response of appropriate sensor. This text may be changed.
Restore text	It is the text, which will be received by a user after restore
	of appropriate sensor. This text may be changed.

GSM security and control system GTalarm software SERA. <u>www.topkodas.lt</u>

Alarm	If the box is checked it means that the module will react towards alarm response of appropriate sensor. If the box is not checked the module will not react towards alarm of
Destaur	the present input.
Kestore	If the check box is checked, it means that the module will
	response. If the check box is not checked the module will
	not react towards restore of the present input
Input Name	Input type you may select after scrolling menu:
	• NC – normally closed contact:
	 NO – normally open contact;
	• FOL normally aloged contact,
	• EOL - normany closed contact with 1
	resistor
Input Def.	Input operation type you may select after scrolling menu:
	• Delay – Entry zone. Set "Entry delay" and
	Exit Delay are applied for this zone. Such type zones
	are used for connection of door sensor.
	• Interior – disturbance of this zone will not
	be responded, if alarm of Delay type zone
	occurred and Entry Delay or Exit Delay time
	for connection of motion cancer in front of the door
	The input will be activated immediately if the door has
	not been open before
	• Instant – Instant zone Upon disturbance of
	this zone, the system will immediately activate burglary
	alarm. If the security system was ARM'ed.
	• 24 hours - Upon disturbance of this zone, the
	system will activate burglary alarm not depending
	whether the security system is ARM or DISARM.
	The applications of this type zones are safes,
	storehouses, tampers of the sensors.
	• Silent - silent zone is always active not
	depending on whether the security system is ARM
	or DISARM. Upon disturbance of this zone, SMS
	messages are being generated but the siren will not be
	activated. These zones may be applied for voltage,
	temperature control, AC mains failure control and for
	alarm of silent panic.
	• Fire - this zone is always active not depending
	on whether the security system is ARM or DISARM.
	The zone generates a special siren signal with
	and for fire alarm
Input speed	It is the time in milliseconds, which indicates the shortest
	signal for reaction of the module. If signal is shorter than
	indicated, the module will ignore it.
Repeat time	The time period in seconds, during this time repeatable
	zone events are ignored.
Zone Action	Changes selected output's state upon alarm or restore.
Battery (F1g. 32)	Ino Low Battery parameters
	• Alarm voltage – voltage the module is
	zone will be alarmed
	• Restore voltage - voltage the module is
	connected to: when this voltage is reached
	the 8 zone will be restored
	• Calibration – coefficient. if changed voltage

	indications might be calibrated.
Temperature (Fig. 33)	In9 Temperature parameters
	• Alarm temperature – when this temperature will be reached 9 zone will be alarmed.
	• Restore temperature - when this temperature will be reached 9 zone will be restored.
	• Additional Calibration – by changing X and Y
	coefficients, which influence temperature
	calculation formula, it is possible to calibrate
	temperature snowings.
	Attention! In order to change temperature scale (C/F)
	go to "Main Window", select preferred temperature
	scale ("Temperature") and after this change send
	configuration into the module ("Write Device").

In	Input Name	Alarm text	Restore text	Alarm	Restore	nput Type
1	Input 1	Door Alarm	Door Closed	•	>	EOL
2	Input 2	PIR1 Alarm	PIR1 Restore			EOL
3	Input 3	PIR2 Alarm	PIR2 Restore			EOL
4	Input 4	Glass Break	Glass Break			EOL
5	Input 5	Fire Alarm	Fire Restore			EOL
6	Input 6	Panic Button	Panic Button			EOL
7	Input 7	Tamper Alarm	Tamper Restore		v	EOL
8	Battery	Low Batery .	Batery Restore		v	NC
9	Temperature	Low Temperature.	Temp Restore .		v	NC
In8 Low Battery parameters Alarm voltage 12.08 ∨ Calibration 2.28783 Restore voltage 13.5 ∨						

Fig. 32

Inp	Inputs						
	In	Input Name	Alarm text	Restore text	Alarm	Restore	nput Type 🔺
	1	Input 1	Door Alarm	Door Closed	V	•	EOL
	2	Input 2	PIR1 Alarm	PIR1 Restore	~		EOL
	3	Input 3	PIR2 Alarm	PIR2 Restore	~		EOL
	4	Input 4	Glass Break	Glass Break	~		EOL
	5	Input 5	Fire Alarm	Fire Restore	~		EOL
	6	Input 6	Panic Button	Panic Button	~		EOL
	7	Input 7	Tamper Alarm	Tamper Restore	~	•	EOL
	8	Battery	Low Batery .	Batery Restore	~	•	NC
Þ	9	Temperature	Low Temperature.	Temp Restore .	~	•	NC
•							
-In A R	In 9 Temperature parameters Alarm temperature 2.78 °C Aditional Calibration X 0.3466 Restore temperature 16.3 °C Y -274.5 Temperature=X*ADC+Y						

Fig. 33

5.7. Window "Service text summary"

	ID	Name of Status Event	Event Text	Send	-
►	1	Module ARM	System ARM		
	2	Module DISARM	System DISARM が	◄	
	3	Module reset	System reset	☑	
	4	Module Periodical Test	Test		

In order to open [Service text summary] Window select [Service text summary] from the left section.

Fig. 34

Explanation of fields of Service text summary window:

Name of Status Event	Event name
Event Text	Event test, which may be changed
Send	If the check box is checked, the message about a certain
	event will be sent to a user, if it is configured in
	[Communications] window.

5.8. Window [Text summary]

In order to open Text summary window select Text table (Fig. 35) from the left side of the Window. This Window is intended for creation of equivalents.

	ID	Text Key	Text				
Þ	1	Events	Event:				
	2	GSM Signal strength	Signal strength				
	3	Module voltage	System voltage:				
	4	Output state	Output state				
	5	New password	New password				
	6 System state System info						
	→						
		Fig. 3	5				

Explanation of fields of [Text summary] Window:

ID	Text number
Text name	Text in English
Text	Equivalent of the text available in "Text name", which
	may be changed.
	Words available in this field will comprise messages
	being sent.

5.9. Window [Testing and Diagnostic window]

In order to open [Testing and Diagnostic window] select [Testing and Diagnostic] option. This Window is intended for testing of the module, for operation analysis and diagnostics. This feature is very convenient when installing the module.



Fig. 36

Explanation of fields of Testing Window:

Inputs	IN1	
	IN2	
	IN3	
	IN4	This is indication of each input. Checked check box nearby the
	IN5	appropriate input means that the said input – zone was activated.
	IN6	Number near each input is a coefficient indicating input voltage.
	IN7	
	IN8	
	IN9	
	ARM/DISARM method	Control input "Touch" state
	(Touch input)	Control input Touch state
Outputs states	Out1	
	Out2	Checked box nearby the appropriate output means that this output
	Out3	is active.
	Out4	
	Button Out1 On/Off	
	Button Out2 On/Off	By pressing buttons (on/off) output states are controlled. It is
	Button Out3 On/Off	convenient to use when it is necessary to test outputs operation.
	Button Out4 On/Off	
GSM info	IMEI	IMEI number of GSM modem available in the module.
	SIM card	If note READY is visible, it means that SIM card is fully
		functioning. Otherwise, check whether PIN code request is off or
		replace SIM card.
	Signal level	Signal strength of GSM communication.
	Registration	State of GSM modem registration to GSM network.

	SMS Service Centre	SMS centre number. This number should be checked if it is	
	Addross	correct. If this number is incorrect SMS messaging may be	
	Address	impossible. This number may be abanged after inserting SIM card	
		impossible. This number may be changed after inserting Shvi card	
~ -	~	into any mobile phone.	
System voltage	Power supply voltage the module is connected to. Nearby number is value of ADC voltage. When		
	multiplying this number by the coefficient Fig. 32, voltage value (V) will be achieved.		
Temperature	Temperature of temperature sensor. The number nearby is temperature ADC value used to		
	calculate temperature according to the formula: Temperature=X*ADC+Y. X and Y coefficients		
	may be changed in temperature window in order to additionally calibrate temperature measuring.		
	These coefficients see Fig. 33. After performing additional calibration, very accurate temperature		
	measurement might be achieved up to 0.1 C		
System State	In direction that at the memory the second state in the		
System State	ARM	Indication that at the moment the module is in ARM	
		mode.	
	DISARM	Indication that at the moment the module is in DISARM	
		mode.	
	WAITING ARM	Module mode when Exit Delay time is being calculated	
APM/DISAPM		Module mode when Exit Denty time is being culculated.	
animond	After measing the button ADM/DICADM made should be showed		
commanu.	After pressing the button AKW/DISAKW mode should be changed		
Switch on			
testing mode	Pressing this button starts testing of the module.		
button			
Switch on			
testing mode	Pressing this button stops testing of the module.		
button			

6. Saving of GTAUTO module configuration into PC

After configuration of the module, all settings may be saved at PC. It enables to save time, when next time the same configuration will be used – it will not be necessary again to set the same parameters.

If you want to save that is already recorded by the module, firstly you must read configuration of the module. [File > Read Device] see Fig. 37 In order to save configuration go to [File > Save As... [Fig. 38 or press icon [Save] icon Fig. 39. Enter configuration parameter in the displayed table and press ",OK".



7. Installing of saved configuration into the module GTAUTO

In order to start saved configuration go to [File] > [Open] Fig. 40 or press [Open] iconFig. 41



SERA - [GTauto configuration]			
File Edit Setup Devices Update Help			
GTauto Configuration			
Fig. 41			
🗁 Open Ctrl+O			
Close			
🔚 Save Ctrl+S			
Save As			
🐺 Read Device			
📅 Write Device			
Exit			
Fig. 42			

Fig. 42 Click the file of saved configuration or press "Open" in displayed Window. Now all parameters of saved configuration have been loaded into application SERA. If no any other changes are necessary, press [File] > [Write Device] Fig. 42 in order to send this configuration into the module.

8. Updating of GTAUTO software version

The latest software version may be found <u>www.topkodas.lt</u>. If a version of your module is older, please update it (to find out the version of your GTalarm software version ((**FW firmware**) send Test SMS from your module). For this purpose press [Update] in the menu list or [Update module] icon, Fig. 43. Specify the file of the newest software version and press [Open]. Follow further instructions of the program.



🥌 SERA - [GTALARM configu	ation]
<u>File Setup D</u> evices <u>U</u> pdate	Help
GTALARM Configuration	1 💌
System Options GSM Communications USERS&Remote Control Outputs Inputs Service SMS Text Custom SMS Text Testing and Diagnostic	System Options GSIM Alarm - Access Control Security System Installer Password (6 symbols) Auto - reARM User Password (6 symbols) Siren Peep on ARM/DISARM Temperature Scale Celcijus
	ARMDISARM Method Button Access ID On Touch Input System Timers Test Time 14:30 Test Period 1 Days (0=disabled) Entry Delay 5 s Exit Delay 10 s Set Module Clock PC time: 16/11/2010 21:17:26 Siren Time 120 s Read Module Clock Module Time: 16/11/2010 21:11:16 Reset Module
0x00010000 ACK ENDFRAME 0x00011000 ACK ENDFRAME 	
J	COM3 Disconnected GTALARM v1 101114

When updating of firmware will be finished, the system will displayed the table below:



Then press RESET button. Then press OK.

Read configuration of the module [File->Read Device] Go to Main Window. Check whether the firmware	has been updated. FW: xxxxxxxx
Hard	ware details
HVX	GTALARM
Boot	: GTALARMboot_1v0
EVV:	GTALARM v1 101114
Programme version is also visible below:	
СОМЗ	Disconnected GTALARM v1 101114