

# **SERA**

The Software for configuration and testing of GTauto v4 in Microsoft Windows environment

		Use	er's guide		
<b>⋘</b> SERA					_   _   ×
<u>File Setup Devices Update</u>	About				
GSM Communications     GSM Remote Control     Outputs     Inputs     Temperature Controller     Service SMS Text     Custom SMS Text	System Options	(6 symbols)		HAN': GTAUTO	perature Controller
Testing and Diagnostic	Test time Lock/Unlock Entry Delay Exit Delay Siren time Temperature	Celciius			
	Reset Module		PC time: 201	1/08/28 20:47:13	
COM3 is closed COM3 is opened					
See user manuals for details		COM3 Disconnected	GTAUTO v4 11080	015	



#### **Content**

1.	Inst	allation of SERA software	2
2.	USI	B drivers installation	4
3.		M port number setting.	
<b>1</b> .	Cor	nnection of the module to your PC	12
5.		rk with the software SERA	
	5.1.	Content of the module configuration	16
	5.2.	Main Window of the software SERA (System options)	
	5.3.	Window [GSM communication options]	19
	5.4.	Remote Control by Dialling (Remote Control by Dialling)	21
	5.5.	Window [Outputs]	22
	5.6.	Window [Inputs]	24
	5.7.	Window Event SMS Text	27
	5.8.	Window [Text summary]	28
	5.1.	Window Temperature Controller	29
	5.2.	Window [Testing and Diagnostic window]	
5.	Sav	ing module configuration into the file	32
7.		alling of saved configuration into the module	
3.	Upo	dating of firmware	34

# 1. Installation of SERA software

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

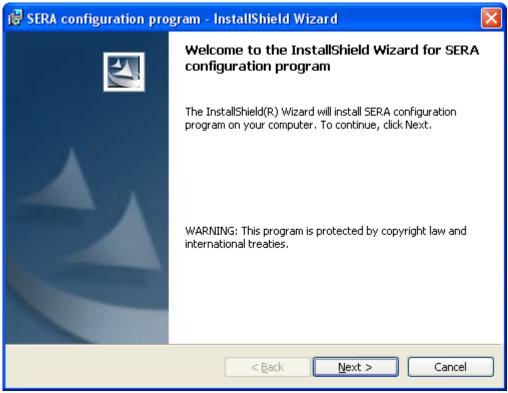


Fig. 1

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

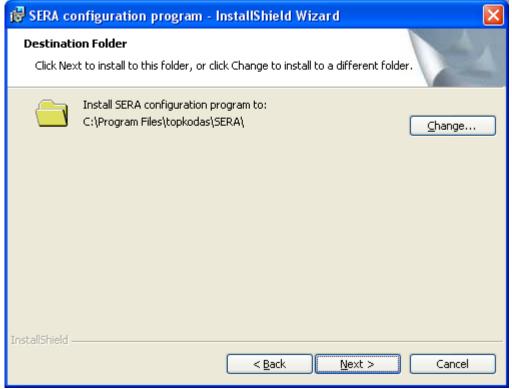


Fig. 2

Installation directory will be displayed in the Window Fig. 2 (fig.2). If installation directory of the software is OK, press [Next]. If you want to install the software into other directory, press Change. Locate another directory to install the software and press Next.

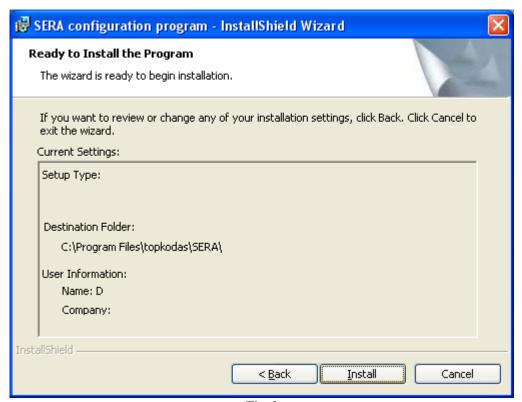


Fig. 3

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

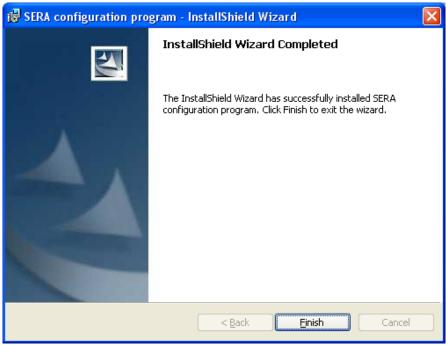


Fig. 4

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 configuration:

Windows 2000/XP usbser.inf.

Windows 7 x86 or x64 **usbser\_x86\_x64.inf** 



Fig. 5

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



Fig. 6

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

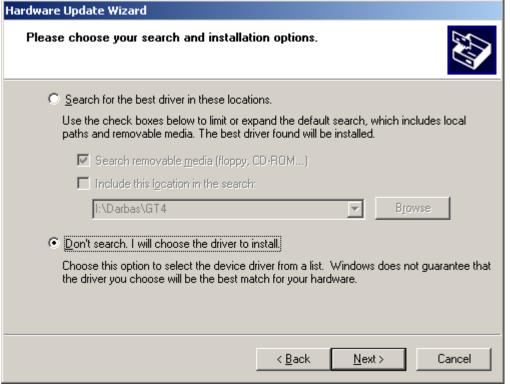
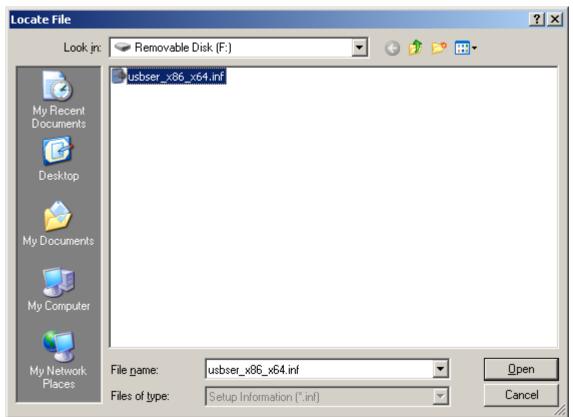


Fig. 7

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

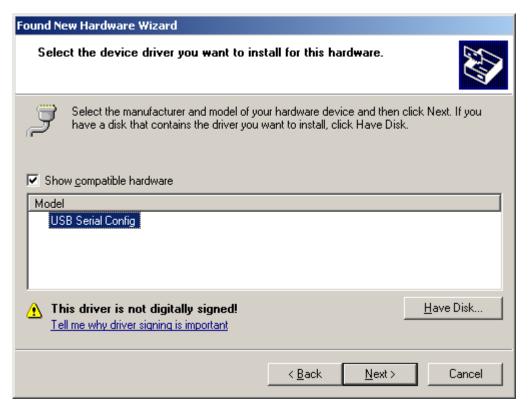


Press Have Disk button



Select driver file:

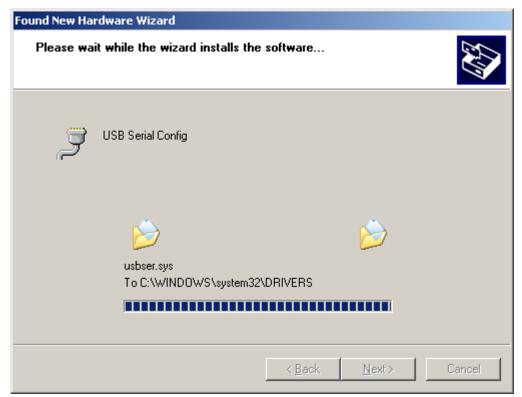
Windows XP Windows 7 x86 or x64 usbser\_inf . usbser\_x86\_x64.inf



Press Next



Press Continue Anyway



Wait while the driver will be installed

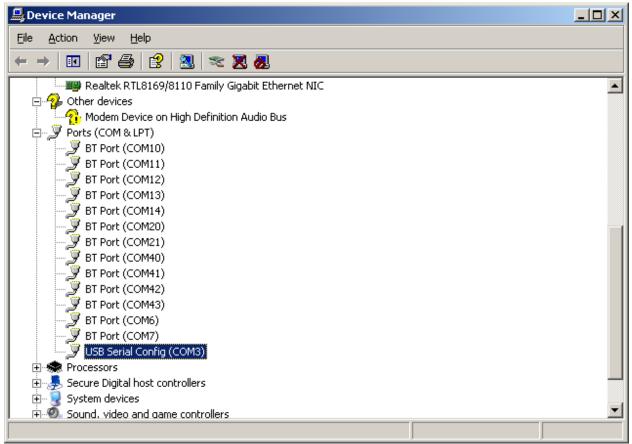


Fig. 8

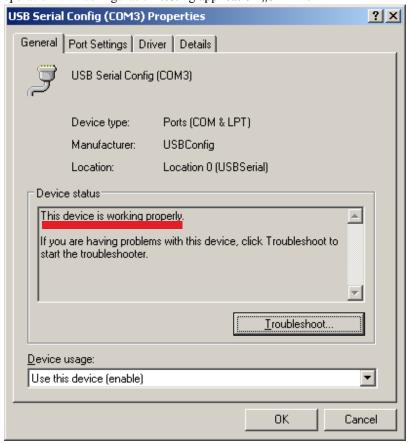
Displayed Window (fig.8) means that your PC has found file necessary for driver's installation and successfully installed it. Press Finish Installation of USB Serial Config is finished.



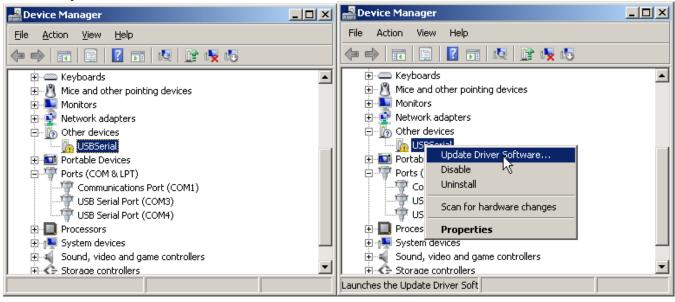
Attention! After installation of USB driver, it is necessary to restart the PC.



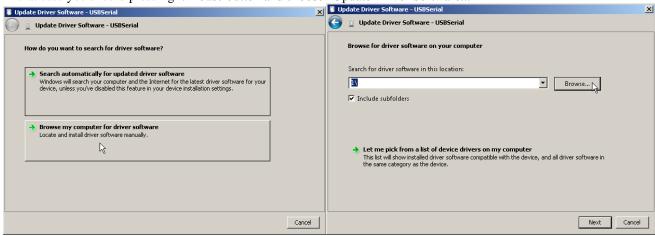
Open Device Manager window and in the row (COM&LPT) press + in order to see all PC COM ports. The row should show USB Serial Config (COMx). Drag mouse cursor on this row and right click on the menu item Properties. **You should see the window below with the note:** "**This device is working properly"**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



If you have problems with the USB driver installation go to Windows device manager. You will see device with exclamation mark like in picture below.



In that case you should press right mouse button and choose "Update Driver Software..."



And Refer existing driver location. Then reinstall USB driver.

# 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.



Fig. 9

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

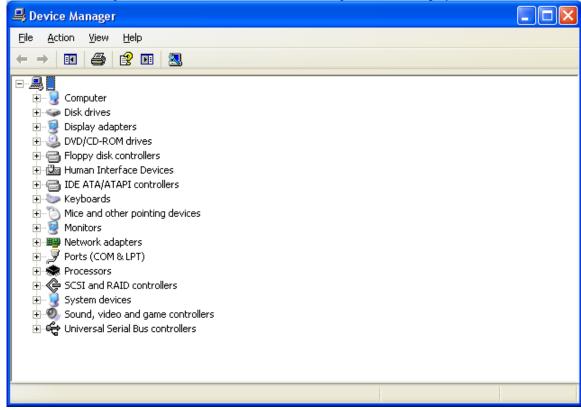


Fig. 10



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.

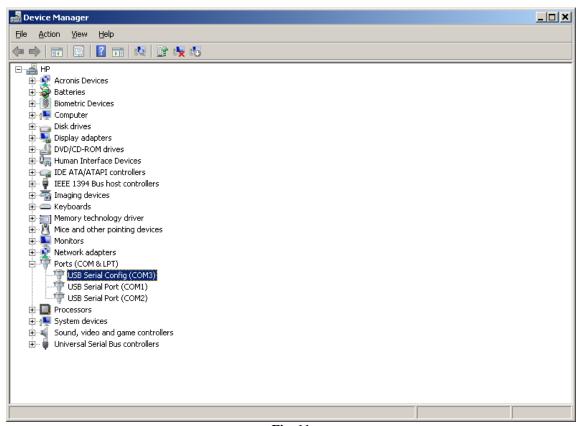


Fig. 11

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 > 500 mA) 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".

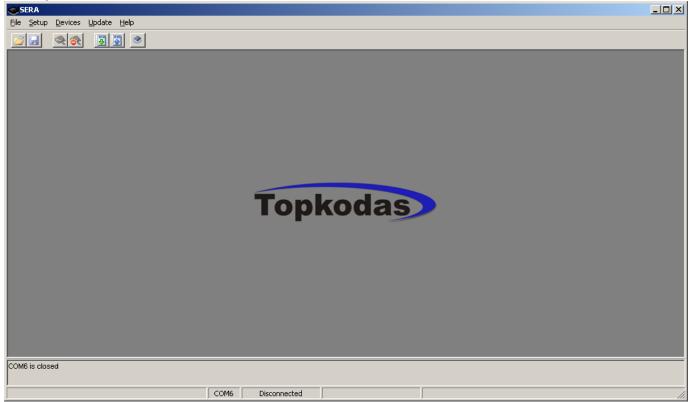
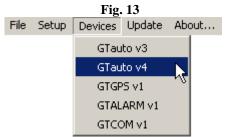


Fig. 12

If you are sure that the module is fully connected to PC and power supply, please go to Devices > GTauto v4. (Fig. 13)



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



Fig. 14

Set the COM port to initialize. Go to [Setup] > [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



**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)



Fig. 17 Read Configuration icon



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



Fig. 18 Send Configuration icon.

## 5.1. Content of the module configuration

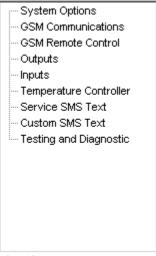


Fig. 19

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.

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

Main Window (System Option) of the software SERA is displayed in Fig. (Fig. 20) This Window is displayed automatically when the GTAUTO device is selected (Devices > GTauto v4). It also may be selected from the content of the

System Options	<u> </u>	
_		soo Control Tomporatura Controllar
GSIVI AI	arm Security System-Acc	ess Control-Temperature Controller
Installer password	(6 symbols)	Hardware details
User password	(6 symbols)	HW:
Test time	h Reset test counter after arming	Boot:
Lock/Unlock	Mode 1 (V+ Pulse using Lock and Unlock inputs)	SW:
Entry Delay	5 s	
Exit Delay	10 s	
Siren time	120 s Siren signal on AF	RMDISARM
Temperature	Celcijus   Auto - reARM  ✓ Indication on/off (	energy saving)
Reset Module	PC time: 201	1/08/28 21:01:40

Fig. 20

Explanation of fields of Main Window:	
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.
Test time	Time period to inform how much time it will take to send informative SMS message to a user. Discretion of test setting time is one hour.
Reset test counter after ARMing	If a check box nearby this note will be checked, time of sending informative SMS message will be calculated from the beginning each time after security system is in ARM mode.
Lock/Unlock	<ul> <li>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: <ul> <li>Disable – programmable block of LOCK and UNLOCK inputs. The module will show no reaction towards signals in LOCK and UNLOCK inputs.</li> <li>Mode 1 (Mode 1 (V+ Pulse using Lock and Unlock inputs) uses two inputs, i.e. Lock and Unlock. Lock input sets ARM mode after pulsing or steady signal. Unlock sets DISARM mode. It is comfortable to use 1st or 2nd mode when connecting the module to the central lock of vehicle. Central lock mostly generates lock and unlock signals with two wires.</li> <li>2nd mode 2 (V- Pulse using Lock and Unlock inputs) similar as 1 mode only inverted.</li> <li>Mode 3 (Mode 3 (V+ Level using Lock input) uses only one Lock input. Unlock input is not used. These modes are comfortable to use when activating/deactivating the system by using switch or other access control device.</li> <li>4th mode (V- Level using Lock and Unlock inputs) similar as 3rd mode is only inverted.</li> </ul> </li> </ul>

	<ul> <li>5th mode (V+ &gt;500ms Pulse Lock input) uses only one Lock input. Unlock input is not used. The module ARM/DISARM state may be changed via voltage pulse longer than 500ms. It is possible to use a button or other control device, which will generate voltage pulse.</li> <li>6th mode (V+ &gt;500ms Pulse Lock input)) similar as 5 mode only inverted.</li> </ul>
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.
Indication	<ul> <li>on/off (energy saving) – if this box is checked it means that setting is On. If the box is not checked the setting is in off (energy saving).</li> <li>On mode – all LEDs available on the module are active and indicate activity of the module.</li> <li>Off (energy saving) mode - lights only red LED, operation of GSM modem is being indicated.</li> <li>*red "control" LED is on bus leads are always on not depending on Indication mode.</li> </ul>
Siren Signal on ARM/DISARM	When the function is active and the security system is turned into ARM state, siren will beep once, when turning into DISARM state - it will beep twice.
Auto re-ARM	Automated activation of the system, if a door has not 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.  • Fahrenheit – temperature indications according to Fahrenheit scale.
Hardware details	This is info about "GTauto" module:  • HW – hardware version of the module.  • Boot – start up program version (BOOT) This part of the program is able to update Firmware SW.  • SW – Firmware version of the module.

**Button [Reset Module]** will reset the module as programmed. 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. The Window Fig. 22 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. 23to 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.

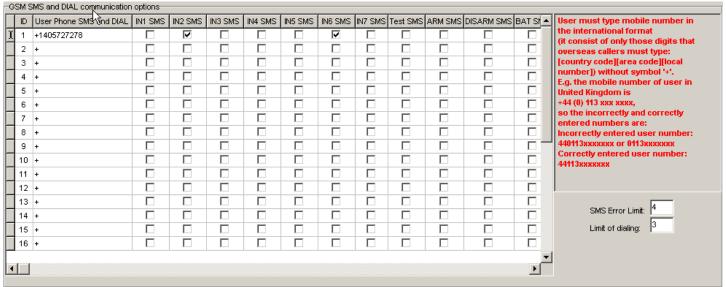


Fig. 21 Fig. 22

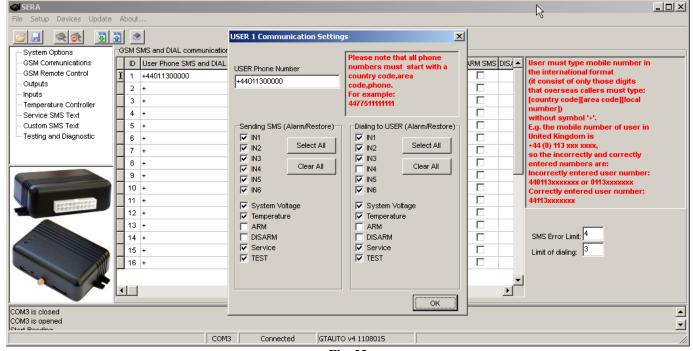


Fig. 23
Explanation of fields of [GSM communication options] Window:

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	<b>Pror limit</b> SMS repetition limit in a case of failure to send SMS.			
Limit of dialling				
user's telephone number, in the event of alarm or if a u				
	does not cancel call of the module. If a user after 15 sec			
will reject a call, the module will stop making call				
	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. 24 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.

The number of users - up to 400

	ID	User Phone	Out1	Out2	Out3	Out4	Arm/Disarm	MIC
	1	+37067524246					V	
	2	+100011111110	✓					
Þ	3	+						
	4	+						
	5	+						
	6	+						
	7	+						
	8	+						
	9	+						
	10	+						
	11	+						

Fig. 24

Explanation of fields of [Remote Control by Dialling]:

Explanation of fields of [Remote Control by Dialling]:						
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 t						
	User number should be entered with international code.					
OUT1, OUT2,OUT3,OUT4	Where the check boxes are checked, these inputs will be					
	switched, if a user will call from this number. Preferred					
	output may be assigned to each user's number. Thus					
	different users are able to control different objects.					
<b>ARM/DISARM command.</b> If this check box is checked, a user will be ab						
	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.

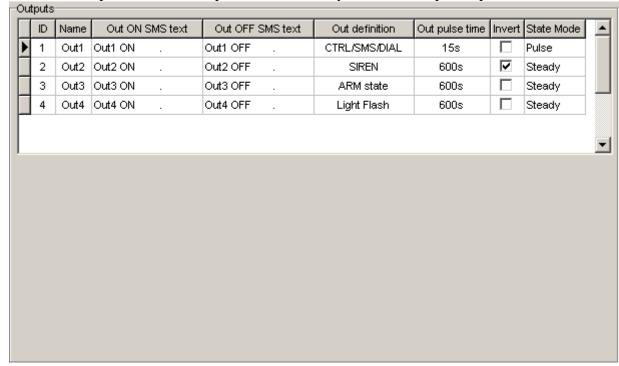


Fig. 25

	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 .	SIREN  BUZZER	600s		Steady
	4	Out4	Out4 ON .	Out4 OFF .	ARM state	600s		Steady
					Inputs OK Light Flash			

Fig. 26

	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
Þ	2	Out2	Out2 ON .	Out2 OFF .	SIREN	600s	V	Steady 🔻
	3	Out3	Out3 ON .	Out3 OFF .	ARM state	600s		Pulse
	4	Out4	Out4 ON .	Out4 OFF .	Light Flash	600s		Steady Steady

Fig. 27

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. 26:

Out pulse time	<ul> <li>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.</li> <li>SIREN – output used for connection of siren. Used for generating of voice signal in the event of alarm.</li> <li>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.</li> <li>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.</li> <li>Inputs OK - if any of zones is disturbed, the output will be activated. This feature is usually used for indication whether all zones are in order.</li> <li>Light Flash – used for connection of light signal. Upon alarm of the security system the light starts blinking. Lights will also blink when arming/disarming the security system. This feature may be applied to connect car direction signals.</li> <li>It is time in seconds, which indicates duration of impulse, when Pulse type is being selected in the column [State Mode]</li> </ul>
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. 27.  • 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. 32

	In	Input Name	Alarm text	Restore text	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action
Þ	1	Input 1	Luggage opened .	Luggage closed .	V	V	NO	instant	200ms	60s	Disable
	2	Input 2	Bonnet opened .	Bonnet closed .	V	V	NO	instant	200ms	60s	Disable
	3	Input 3	Door opened .	Door closed .	V	V	NO	instant	200ms	60s	Disable
	4	Input 4	Microwave alarm.	MicrowaveRestore	V		NO	instant	50ms	60s	Disable
	5	Input 5	Ignition ON .	Ignition OFF .	V		NC	instant	1000ms	60s	Disable
	6	Input 6	Siren ON .	Siren OFF .	V		NC	instant	5000ms	60s	Disable
	7	Battery	Low Batery .	Batery restore .	V		NC	silent	65000ms	6000s	Disable

Fig. 28

	In	Input Name	Alarm text	Restore text	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action
	1	Input 1	Luggage opened .	Luggage closed .	V	V	NO	instant	200ms	60s	Disable
Þ	2	Input 2	Bonnet opened .	Bonnet closed .	V	✓	NO 🔻	instant	200ms	60s	Disable
	3	Input 3	Door opened .	Door closed .	V	V	NO	instant	200ms	60s	Disable
	4	Input 4	Microwave alarm.	MicrowaveRestore	V		NC EOL	instant	50ms	60s	Disable
	5	Input 5	Ignition ON .	Ignition OFF .	V		NC	instant	1000ms	60s	Disable
	6	Input 6	Siren ON .	Siren OFF .	V		NC	instant	5000ms	60s	Disable
	7	Battery	Low Batery .	Batery restore .	V		NC	silent	65000ms	6000s	Disable

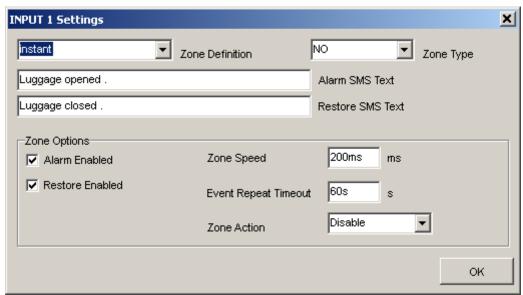
Fig. 29

	In	Input Name	Alarm text	Restore text	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action
	1	Input 1	Luggage opened .	Luggage closed .	V	<u>\</u>	NO	instant	200ms	60s	Disable
Þ	2	Input 2	Bonnet opened .	Bonnet closed .	✓	V	NO	instant 🔻	200ms	60s	Disable
	3	Input 3	Door opened .	Door closed .	V	V	NO	delay	200ms	60s	Disable
	4	Input 4	Microwave alarm.	MicrowaveRestore	✓		MC)	interior instant	50ms	60s	Disable
	5	Input 5	Ignition ON .	Ignition OFF .	V		NC	24 hours	1000ms	60s	Disable
	6	Input 6	Siren ON .	Siren OFF .	✓		NC	silent	5000ms	60s	Disable
	7	Battery	Low Batery .	Batery restore .	✓		NC	fire	65000ms	6000s	Disable

**Fig. 30** 

	In	Input Name	Alarm text	Restore text	Alarm	Restore	Input Type	Input Def.	Input speed	Repeat time	Action
	1	Input 1	Luggage opened .	Luggage closed .	V	✓	NO	instant	200ms	60s	Disable
Þ	2	Input 2	Bonnet opened .	Bonnet closed .	✓	ᅜ	NO	instant	200ms	60s	Disable 🔽
	3	Input 3	Door opened .	Door closed .	✓	✓	NO	instant	200ms	60s	Disable
	4	Input 4	Microwave alarm.	MicrowaveRestore	V		NO	instant	50ms	60s	OUT1 OUT2
	5	Input 5	Ignition ON .	Ignition OFF .	V		NC	instant	1000ms	60s	OUT3
	6	Input 6	Siren ON .	Siren OFF .	✓		NC	instant	5000ms	60s	OUT4
	7	Battery	Low Batery .	Batery restore .	V		NC	silent	65000ms	6000s	Disable

Fig. 31

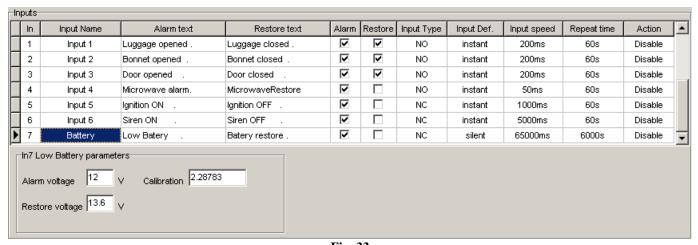


**Fig. 32** 

Explanation of fields of [Inputs] window:

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.
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
	the present input.
Restore	If the check box is checked, it means that the module will
	react towards restore of appropriate sensor after alarm
	response. If the check box is not checked the module will
Tunned Nome	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
T (D)	EOL - normally 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 – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry zone. Set "Entry delay" and "Exit  Delay – Entry dela
	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 still have not
	expired. Such type zones may be used for connection of
	motion sensor in front of the door. The input will be
	activated immediately if the door has not been open
	before.
	• <b>Instant</b> – 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

	1
	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.
	• <b>Fire</b> - this zone is always active not depending
	on whether the security system is ARM or DISARM.
	The zone generates a special siren signal with
	interruptions. The zone is applied for smoke sensors
	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	Changing of selected output state upon alarm ot restore.
Battery (Fig. 33)	In8 Low Battery parameters
	• Alarm voltage – voltage the module is
	connected to; when this voltage is reached, the 8
	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.



**Fig. 33** 

#### 5.7. Window Event SMS Text

In order to open Service Text Summary window, it is necessary to select the item Event SMS Text from the content.

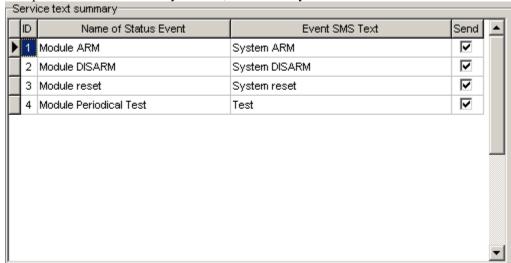


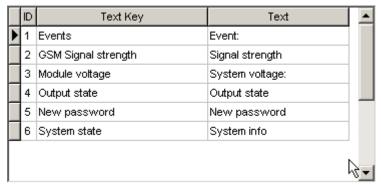
Fig. 34

Explanation of fields of **Service text summary** window:

Zilpianation of fields of Self flee temp sammer j filmes in				
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.



**Fig. 35** 

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.

#### 5.1. Window Temperature Controller

In order to open window of Temperature Controller Settings, select Temperature Controller.

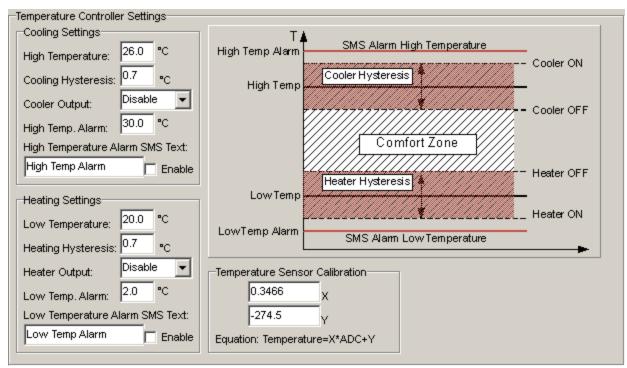
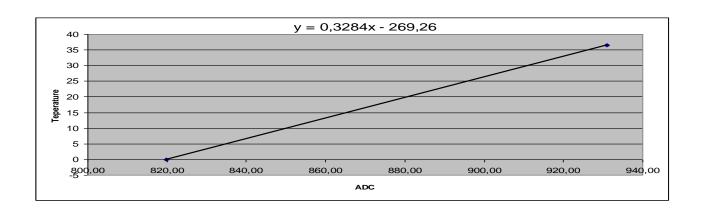


Fig. 36

TT 1 m	
High Temperature	Temperature value upon which cooling device will be
	activated.
Cooling Hysteresis	Cooling device control hysteresis
Cooler Output	To select output for cooling device control. If cooling
_	device is not used, select the option Disable.
High Temp. Alarm	Temperature value upon reaching which high temperature
•	alarm will be send.
High Temperature Alarm SMS Text	High temperature alarm SMS text is being recorded.
Enable	To send high temperature alarm.
Low Temperature	Temperature value upon which heating device will be
	activated.
Heating Hysteresis	Heating device control hysteresis
Heater Output	To select output for cooling device control. If heating
	device is not used, select the option Disable.
Low Temp. Alarm	Temperature value upon reaching which low temperature
	alarm will be send.
High Temperature Alarm SMS Text	Low temperature alarm SMS text is being recorded.
Enable	To send low temperature alarm.
<b>Temperature Sensor Calibration</b>	Temperature sensor value calculation coefficients. They
-	might be used to calibrate temperature measurements.
	Temperature calculation formula T=X*ADC+Y
X	X- multiplier
Y	Y - Coefficient.

Following the equation Temperature=X\*ADC+Y and by selecting X and Y coefficients. Temperature calibration may be performed in software SERA in testing window. It is necessary to have accurate thermometer in order to measure temperature at least in two points. In testing window to read temperature ADC indications in these points. Following the equation "Temperature=X\*ADC+Y" to calculate X and Y coefficients. Calculated X and Y coefficients should be programmed in the module. It is easy to calculate X and Y coefficients in MC Excel by using trendline.



#### 5.2. 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.

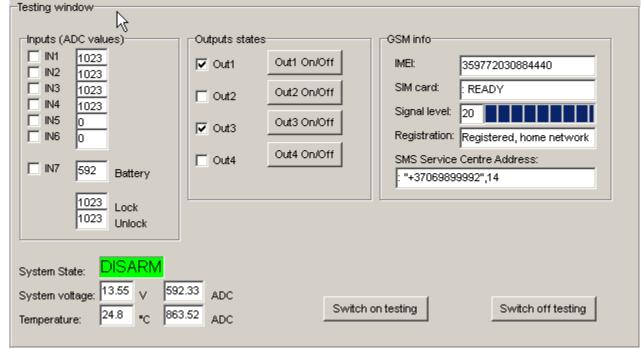


Fig. 37

Explanation of fie	elds of Testing Window:			
Inputs	IN1			
-	IN2			
	IN3	This is indication of each input. Checked check box nearby the		
	IN4	appropriate input means that the said input – zone was activated.		
	IN5	Number near each input is a coefficient indicating input voltage.		
	IN6	Trumber near each input is a coefficient indicating input voltage.		
	IN7			
	Lock	Look Input indication, Number payrby is a coefficient indicating		
	Lock	Lock Input indication. Number nearby is a coefficient indicating		
	Unlock	input voltage.		
	Unlock	Unlock Input indication. Number nearby is a coefficient		
0 1 1 1	0.41	indicating input voltage.		
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		
	Address	correct. If this number is incorrect. SMS messaging may be		
		impossible. This number may be changed after inserting SIM card		
		into any mobile phone.		
System voltage	Power supply voltage the modu	le is connected to. Nearby number is value of ADC voltage. When		
~,~~~		coefficient Fig. 33, voltage value (V) will be achieved.		
Temperature		sor. The number nearby is temperature ADC value used to		
remperature		to the formula: Temperature=X*ADC+Y. X and Y coefficients		
		window in order to additionally calibrate temperature measuring.		
		er Fig. 36 After performing additional calibration, it is possible to		
		ature measurement up to 0,1 C in a narrow temperature		
	measurement range.	nture measurement up to 0,1 e in a narrow temperature		
System State	ARM	Indication that at the moment the module is in ARM mode.		
System State	DISARM	Indication that at the moment the module is in DISARM mode.		
	WAITING ARM			
Cwitch on	WAITING ANVI	WAITING ARM Module mode when Exit Delay time is being calculated.		
Switch on	Described to the second of the second to			
testing mode	Pressing this button starts testing of the module.			
button	-			
Switch on	<b>B</b> • 41.1 · · · · · · · ·	6.1 1.1		
testing mode	Pressing this button stops testing	g of the module.		
button				

# 6. Saving module configuration into the file

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. 38 In order to save configuration go to [File > Save As... [Fig. 39 or press icon [Save] icon Fig. 40. Enter configuration parameter in the displayed table and press "OK".



Fig. 39



Fig. 40

#### 7. Installing of saved configuration into the module

In order to start saved configuration go to [File] > [Open] Fig. 41 or press [Open] iconFig. 42

🧩 Write Device

Exit

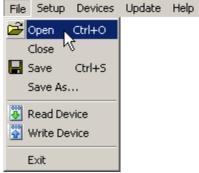


Fig. 41

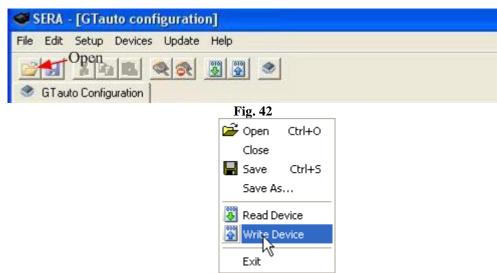


Fig. 43

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. 43 in order to send this configuration into the module.

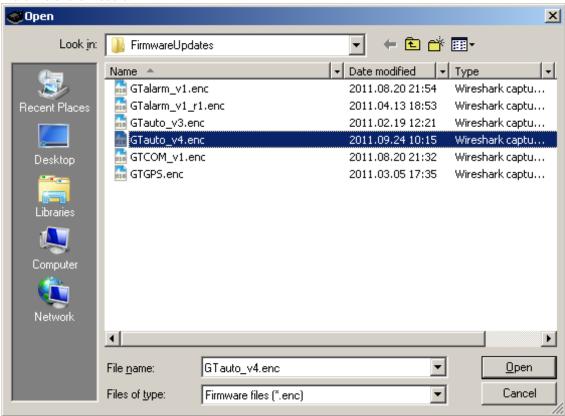
#### 8. Updating of firmware

The latest software version may be found <a href="www.topkodas.lt">www.topkodas.lt</a>. If a version of your module is older, please update it (to find out the version of your GTAUTO software version ((**FW firmware**) send Test SMS from your module). For this purpose press [Update] in the menu list or [Update module] icon, Fig. 44. Specify the file of the newest software version and press [Open]. Follow further instructions of the program.



Fig. 44

Select Firmware file of the module:

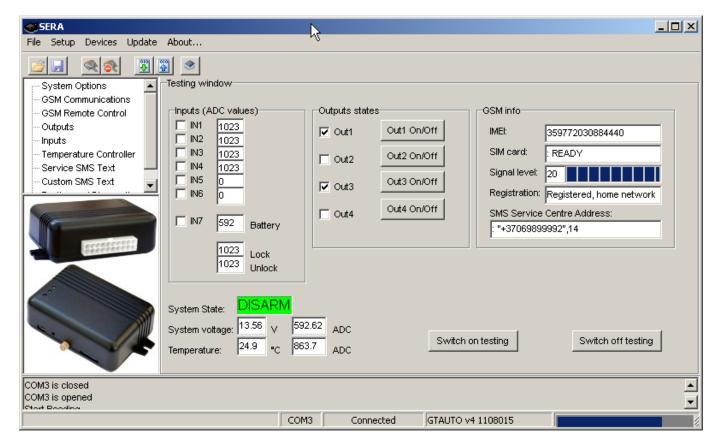


Press RESET button once and click "OK" in the displayed table.

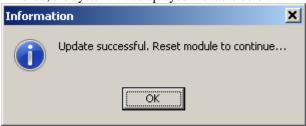


You will see the following progress bar at the bottom of the window:

COM3 Disconnected GTAUTO v4 1108015



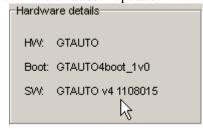
When updating of firmware will be finished, the system will displayed the table below:



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



Programme version is also visible below:

COM3 Disconnected GTAUTO v4 1108015