



GSM module G10C

(v.1.3X)

Installation manual

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Safety requirements

Please read this manual carefully before using the security module *G10C*.

Security module *G10C* should be installed and maintained by qualified personnel, having specific knowledge regarding the functioning of GSM devices and safety requirements.

Module *G10C* should be mounted in places with restricted access and in safe distance from any sensitive electronic equipment. The device is not resistant to mechanical effects, dampness and hazardous chemical environment.

Liability restrictions

- When buying the Device, the Buyer agrees that the Device is a part of a security system of premises, which sends
 messages about security system status. The Device, when installed, does not diminish the probability of burglary, fire,
 intrusion or other breach of premises.
- UAB "TRIKDIS" is not responsible for burglary, fire or any other breach of Buyer's and/or User's premises and is not liable for any direct or indirect damages incurred thereof.
- When buying the Device, the Buyer agrees that the Device supplied by UAB "TRIKDIS" fully meets his requirements for intended use.
- UAB "TRIKIDIS" provides no guarantees that the Device shall function as declared if the Device is installed and used not
 according to its original purpose, user manual and relevant electronic and technical conditions.
- UAB "TRIKDIS" is in no way associated with GSM/GPRS/Internet service providers (operators), thus UAB "TRIKDIS" is in no way responsible for any defects in Device operation if they have occurred because of the loss of GSM/GPRS/Internet connection, or because of other defects in the service provider network.
- UAB "TRIKDIS" has no control and is not responsible for the prices and marketing of network services provided by the GSM/GPRS/Internet service providers.
- UAB "TRIKDIS" is not responsible if GSM/GPRS/Internet services are not provided to the Buyer and/or User of the Device or were cancelled and any direct or indirect damages were incurred thereof.
- UAB "TRIKDIS" is not responsible for any direct or indirect damages incurred by the Buyer and/or User of the Device due to loss of electricity.
- UAB "TRIKDIS" is not liable if Device firmware versions were not updated by the Buyer and/or the User on time.
- User manual of the Device can contain technical inaccuracies, grammatical or typographical errors. UAB "TRIKDIS" reserves the right to correct, update and/or change information in the installation manual.

GSM module G10C

Module *G10C* is designed for transmitting security system messages to a monitoring station through a GSM connection. Module features:

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- Messages to the monitoring station can be transmitted in on of following modes or through GPRS connection or with SMS messages or in DTMF tones;
- Messages can be sent through a primary communication channel and if it fails through a backup channel;
- Even if GPRS connection with two servers is lost, information can be sent with SMS messages;
- Sent messages correspond with Contact ID protocol codes;
- The module can send SMS messages to 4 user mobile phones;
- Input status can be controlled constantly or when control is activated;
- Output OUT1 status can be controlled remotely;
- Operating parameters and firmware version can be updated remotely;
- Operating parameters are set with the program G10config.

Description of module operation

- Module G10C is connected to security control panel PGM outputs and can be set to operate in one of the two modes:
 - a) Constant input control mode (**24** *h*). After the security control panel has changed the state of its PGM output, module input circuit is also disturbed. The module *G10C* immediately sends a report about this event to the monitoring station. When the security control panel restores its PGM output status, the status of module input external circuit is also restored. The module will send a report about this event. A general wiring diagram is given in Fig. 1.
 - b) Activated input control mode (Control panel). When this mode is selected, input MCI operates as an input status controller. While input MCI is connected with COM, disturbances in the circuits of inputs IN1...IN4 are allowed and reports about them are not created. After the circuit of input MCI is broken, the module will send a report informing that input status is controlled and disturbances in the circuits of inputs IN1...IN4 are no longer allowed. When input status is controlled by input MCI and circuits of the inputs IN1...IN4 are disturbed, the module will send reports about these disturbances/restorations.
- Module G10C has five inputs. When operating in 24 h mode, module MCI input is the fifth NC type input, and when operating in mode Control panel, it operates as a controller for the other four inputs.
- The module can send messages about the disturbances/normalisations of input *IN1...IN4* and *MCI* external circuits to the monitoring station through a specified connection channel. If the message transmission through this channel fails, the module may send them through a backup channel.
- When two server IP addresses are set and the module loses connection with both of them, it can send information to the monitoring station with SMS messages.
- The module can periodically send signals *PING* for connection control.
- The reports can be sent with SMS messages up to four mobile phones. A user-friendly SMS message text can be assigned for every module input event.
- Module output OUT1 status will change when connection with the monitoring station server has been lost/restored or when the module has received an SMS message changing its output status.

Module components



- 1. Terminal block
- 2. SIM card holder
- 3. USB socket
- 4. GSM antenna
- 5. Indicator "Network"
- 6. Indicator "Data"
- 7. Indicator "Power"

Terminal block description

	-
Contact	Description
+E	+12V power supply clamp
COM	Common clamp
IN1	1st input clamp (NC type)
IN2	2nd input clamp (NC type)
IN3	3rd input clamp (NC type)
IN4	4th input clamp (NC type)
OUT1	Output clamp (OC type)
COM	Common clamp
MCI	5th input, programmable (NC type)

Light indication

	LED	Operation	Description
_	Network presents connection	Green ON	Module is connected to a GSM network
	with GSM network status	Yellow ON	Message is being sent
		Green flashing	Connecting to GSM network
		Yellow flashing	Number of yellow flashes represent GSM signal strength
	Data presents data exchange	Green ON	Unsent messages present in module memory
		Red ON	Unable to be sent messages
		Green flashing	Messages are being received from the control panel
		Red flashing rapidly	Module configuration is incorrect
		Red flashing	SIM card error
	Power presents power supply	Green flashing	Power supply is sufficient, microcontroller is functioning
	status, functioning of	Yellow flashing	Power supply is not sufficient (≤11.5 V), microcontroller is
	microcontroller and		functioning
	programming status	Green and yellow flashing in turn	Programming mode

Module installation steps

Actions	Notes
1. Set the operating parameters for the module.	Follow recommendations in chapter <u>Setting operating</u> parameters.
2. Insert an active SIM card.	Contact a GSM service provider regarding the SIM card. We do not recommend using <i>pay as you go</i> (prepaid) SIM cards.
 Fasten the module to the security control panel metal casing by using either M3x6 screws or adhesive fastening tape. 	The location and dimensions of holes to be drilled in the casing for fastening the module and antenna: 43 mm $2 \times \underline{Ø4}$ $\underline{Ø12}$
4. Screw the GSM antenna on.	
Connect the module to the security control panel according to the wiring diagrams given below.	See chapter <u>Wiring diagrams</u> .
6. Turn on the system power supply.	
 Check GSM signal strength according to light indication. 	Sufficient GSM signal strength is level 5 (five yellow flashes of indicator Network). If GSM signal strength is not sufficient, use other antenna type.
 Check if the module sends messages according to its configuration 	The message must be sent and received at the specified IP address. If messages are sent to a mobile phone, check if all SMS messages are received.

Wiring diagrams



Fig. 1. General wiring diagram for connection to the security control panel, when constant input status control mode (*24 h*) is set.





Setting operating parameters

Module *G10C* operating parameters are set with computer program *G10config.* Program can be found in website <u>www.trikdis.lt</u>.

1. Connect the module *G10C* with a computer using a USB cable.

Note: USB drivers must be installed in the computer. If the module is connected to a computer for the first time, MS Windows OS should open a *Found New Hardware Wizard* window for installing USB drivers. Download the USB driver file *USB_COM.inf* for MS Windows OS from the website <u>www.trikdis.lt</u>. In the wizard window select the function *Yes, this time only* and press the button *Next*. When a new window *Please choose your search and installation option"* will open, press the button *Browse* and select the place where the file *USB_COM.inf* was saved. Follow the remaining wizard instructions to finish the USB driver installation.

- 2. Start the program *G10config*.
- 3. Select the program directory *Settings*.

Port	COM5	•
Language	English	•

4. Press the button Connect/Disconnect [F2/F8].



5. Press the button *Read [F7]*.



In the drop-down list **Port** select the port to which the module is connected.

<u>Note</u>: specific port to which the device is connected will appear only when the device is properly connected.

In the drop-down list Language select the desired program language.

When the module *G10C* is connected to a computer, module LED *Power* indicator should flash green and yellow in turn. Program G10config status bar should indicate connection status *Connected* and display the following information about the connected module:

Dev: G10C	Module type
CN1 000174	

SN: 000174	Module serial number
Ver: 1.33	Firmware version installed in the module

When the window *Access code* opens, enter the access code (default access code is **1234**) and press the button *OK*. If you want for the program to remember your access code check the box *Remember*. Then the *Access code* window will not open when connecting to the module for the next time.

Select the program directory *Main* and set the following parameters:

🗣 G10config					<u>- 🗆 ×</u>
<u>File A</u> bout					, ,
Disconnect [F2/F8]	Read [F7]	Open Last [F4]	Write [F6]	Open (F3)	Save [F5]
Main GPRS reporting Text SMS reporting Settings Firmware	Account name SIM Card PIN User code Admin code	1111 1111 1234 4 digits 1234 4 digits 1234 4 digits	I⊽ He I⊂ GF I⊂ CS I⊂ SM I⊽ Te	x PRS ping time [0 D ping time [0 IS ping time [0 st time [1	0
	Panel lype In1 PGM	1. 24h (NC) Input mode Remote control SMS	v v v		
Dev: G10C	Save access code	Read after connection Ver 1.35	Restore defaults s	settings	Restore [F11]

Object ID	Section for entering a 4-digit object identification code;
SIM Card PIN code	Section for entering the SIM card PIN code. Leave this field blank if PIN code request is disabled;
User code	Section for entering a user code. When connected using a <i>User</i> code, only those module parameters can be changed, which change was allowed by the administrator;
Admin code	Section for entering an administrator code. When connected using an <i>Administrator</i> code, all module parameters can be changed and also access to parameter change can be restricted for persons connecting with the <i>User</i> code.
Operates with control panel	Select in the list the operating mode of the module <i>G10C</i> , according to which the status of module inputs, which are connected to the security control panel PGM outputs, is controlled. If 24h is selected, input status will be constantly controlled. If Control Panel is selected, you will be able to turn the input control on or off;
IN1	Function is not used;
PGM	If the option <i>Remote control SMS</i> is selected in the drop-down list, the module will change its output state after receiving an SMS message containing a control command (See chapter <i>Remote control of the module</i>). If the option <i>Lost Primary channel</i> is selected, output state will change to the opposite after losing communication through the primary channel. When the option <i>Lost Secondary channel</i> is selected, output state will change to through the backup channel. If the option <i>Lost Both channels</i> is selected, output state will change to the opposite after losing communication through the primary and backup channels;
Start sending PGM	Function is not used;
GPRS PING time	Time interval according to which the module will send messages for GPRS connection control to the monitoring station;
CSD PING time	Function is not used;
SMS PING time	Time interval according to which the module will send SMS messages to the monitoring station to check the connection;
Test time	Time interval according to which the module will send Test connection control message to the monitoring station;

In the directory *GPRS* enter the parameters for connection with the monitoring station:

S10config						_ <u> </u>
Disc.	onnect [F2/F8]	Read [F7]	Open Last [F4]	Write [F6]	Open (F3)	Save [F5]
Main GPRS rep Text SMS Settings Firmware	<mark>viting</mark> eporting	Primary reporting (*) Server IP1 address or Domain Port Tel. 1	GPRS	Backup reporting (*) Server IP2 address or Domain Port Tel: 2	GPRS 0	
		APN User Password DNS1 DNS2	195.22.175.1 194.176.32.129	Second backup reporting te Protocol Encryption key Return to primary after Backup reporting after	TRK_TCP storess 90 2	s attempts
Dev: G	10C	Module events Event TIME TEST POWER IN1 IN2 IN3 IN4	Contact ID 6 E 700 99 99 E 602 99 99 E 302 99 99 E 130 99 00 E 130 99 00 E 130 99 00 E 130 99 00 Ver. 1.3	vent code Co 9 R 9 R 1 R 2 R 3 R 3 R 5	ntact ID restore code 700 99 999 302 99 999 130 99 001 130 99 002 130 99 002 130 99 003 130 99 003	
iry reporting	The section to an alarm If GPRS is s the corresp If DATA is dial messa the "+" (pl If SMS is se send with "+" (plus) s	n is for setting a prin n receiving centre (<i>A</i> selected, IP1 addres bonding boxes <i>Serv</i> selected, enter telep ges in DTMF tones. us) sign. elected, enter telep SMS messages. The sign.	nary communicatio ARC). s (or domain name) er IP1 address or De phone number of P <u>9</u> The telephone num hone number of the telephone number	n channel, through of ARC and a port n omain and Port. STN line receiver of <i>i</i> ber must be entered SMS receiver of AR must be entered wi	which the module umber of the serv ARC in the box <i>Te</i> d with internatior C in the box <i>Tel.1</i> th international c	e will transmit messages ver must be specified in <i>I.1</i> , to which module will al country code without , to which module will ountry code without the
p reporting	The section connection If GPRS is a the corresp If DATA is dial messa the "+" (pl If SMS is s send with "+" (plus) s	n is for setting a bac n through the prima selected, IP2 addres bonding boxes <i>Servi</i> selected, enter tele ges in DTMF tones. us) sign. elected, enter telep SMS messages. The sign.	kup communication ry communication o s (or domain name) er IP2 address or De phone number of P The telephone num phone number of th telephone number	n channel, through w channel has been los of ARC and a port n omain and Port . STN line receiver of <i>i</i> ber must be entered the SMS receiver of <i>A</i> must be entered w	which the module it. umber of the sen ARC in the box <i>Te</i> d with internation ARC in the box <i>Te</i> ith international of	will transmit messages if ver must be specified in <i>I.2</i> , to which module will nal country code without <i>I.2</i> , to which module wil country code without the
d backuj ting tel.	 Telephone GPRS conr channels a without th 	number of the mo nection with both se re selected as GPR . e "+" (plus) sign.	nitoring station, to ervers. This option i S . The telephone n	which SMS messag s allowed, when bo umber should be en	es will be sent, w th the primary an tered with intern	when the module has lost d the backup connection ational country code but
col	Drop-dow	n list for selecting a	protocol for encryp	ting messages;		
otion key	Section for same as th	entering a 6-digit k e password entered	ey for encrypting m d in a server program	essages sent to the n <i>IPcom</i> .	monitoring statio	n. The password must be
n to primar	 Used if both the section connection 	th the primary and n the duration of n through the prima	backup channels ard time for sending n ry channel has faile	e selected for conne nessages though th d;	ction with the mo e backup comm	onitoring station. Enter ir unication channel, when
p reporting	y Used if both the section which the	th the primary and the number of atte module will connect	backup channels are empts to transmit ir t to the backup com	e selected for conne nformation through munication channel	ction with the mo the primary comr I.	onitoring station. Enter in nunication channel, after

Monitoring station administrator should provide the IP addresses, port and telephone numbers, encryption protocol and key with other parameters necessary for connecting with the monitoring station.

APN	Access point name for connecting to the GSM operator's network;
User	User name for connecting to the GSM network (Login);
Password	Password for connecting to the GSM network;
DNS1, DNS2	Leave the default values in the sections.

APN, user name and password should be provided by the GSM network administrator, from which you have received the SIM card.

Module eventsEvents are given in the table, about which the module will also send messages. Event code can be changed by
double-clicking the cells Contact ID event code or Contact ID restore code and by entering exact values in the
newly opened window. After entering the values press the button OK.

Module events			Event code	×
Event	Contact ID event code	Contact ID restore code	Active	v
TIME	E 700 99 999	R 700 99 999	Classificate	. F
TEST	E 602 99 999		Classificatio	
POWER	E 302 99 999	R 302 99 999	Event	130
IN1	E 130 99 001	R 130 99 001	Subgroup	99
IN2	E 130 99 002	R 130 99 002		001
IN3	E 130 99 003	R 130 99 003	Zone	1001
IN4	E 130 99 004	R 130 99 004		
IN5	E 130 99 005	R 130 99 005		OK

Module events	Default "E" event description	Default "R" event description
TIME	Internal clock of the module is not set	Internal clock of the module is set
TEST Periodic module Test message		
POWER	Power supply voltage is lower than 11,5 V	Power supply voltage has restored to 12,6 V
IN1	Input IN1 external circuit is disturbed	Input IN1 external circuit has restored
IN2	Input IN2 external circuit is disturbed	Input IN2 external circuit has restored
IN3	Input IN3 external circuit is disturbed	Input IN3 external circuit has restored
IN4	Input IN4 external circuit is disturbed	Input IN4 external circuit has restored
IN5	Input MCI external circuit is disturbed	Input MCI external circuit has restored

In the directory *Text SMS to user* enter the parameters, which are necessary to send SMS messages to users:

Main			
- GPRS reporting	Name	T1 T2 T3 T4	Na Telephone
— Text SMS reporting	Alarm/Restore		T1 37012312345
Settings	Open/Close		T2 4512312345645
- Firmware	Troubles		T3 4412312345678
	Tests		T4 4112312345678
			* International phone number. Example: 37068012345
	SMS encoding	1. ENGLISH WIN1252	 Send SMS Described Only
	Object ID	Account Name	
	Users		Zones
	001 UserName 1	-	 001 Zone 1
	002 UserName 2		002 Zone 2
	012 UserName 12		009 Zone 9
	064 UserName 64		- 032 Zone 32 -
			- I - I
	1		
	Partitions		
	01 Area 1		A
	02 Area 2		
	06 Area 6		

Telephone	Telephone numbers of the users should be entered in fields T1, T2, T3, T4 to which SMS messages will be sent. The telephone number should be entered with international country code but without the "+" (plus) sign;	
Name	Choose by selecting the check boxes, about which events messages will be sent to users;	
Alarm/Restore	SMS messages will be sent, when an input circuit is disturbed, which events are described in the table Mod events with E 1xx xx xxx and R 1xx xx xxx codes (security system alarm: fire, burglary, trespass, assault and etc	
Open/Close	SMS messages will be sent, when an input circuit is disturbed, which events are described in the table <i>Module events</i> with E 4xx xx xxx and R 4xx xx xxx codes (security system arm/disarm);	
Troubles	SMS messages will be sent, when an input circuit is disturbed, which events are described in the table <i>Module events</i> with E 3xx xx xxx and R 3xx xx xxx codes (security system troubles);	
Tests	SMS messages will be sent, when an input circuit is disturbed, which events are described in the table <i>Module events</i> with E 6xx xx xxx code (security system <i>Test</i> messages);	
SMS encoding	Choose in the list the preferred encoding for the text in SMS messages;	
Send SMS	When All is chosen, SMS messages will be sent to users about all module external circuit events. When Described Only is chosen, SMS messages will be sent to users only about those external circuit events, which are described;	
Object ID	Enter the object name. It will be included in the message sent to user;	

Users		Function is not used;			
Zones		Entries in the table are associated with PGM output events controlled by the security control panel. When a connected module input circuit is alarmed/restored, its description entered in the table will be included in the SMS message;			
Partitions		(1) If the security system is divided into several individually protected areas <u>and</u> (2) if control panel PGM output events shall mark events in these areas, then entries in the table are associated with these events. If a connected module input circuit is alarmed/restored, the name of the partition entered in the table will be included in the SMS message;			
6. Press the button <i>Save [F6]</i> and values entered in the program <i>G10config</i> windows will be uploaded to the <i>G10C</i> .		Save [F6] and values entered in the program G10config windows will be uploaded to the module			
7.	Press the button D	Disconnect [F8] and unplug the USB cable from the USB socket.			
Save [F5]		By pressing this button values entered to the program <i>G10config</i> can be saved in the computer. A new file wi extension <i>.gst</i> will be created. It can be used later as a template for configuring other modules.			
Restore [F11]		Button for restoring default (factory) operating parameters of the module <i>G10C</i> . Press the button Yes when request window opens.			

Updating module firmware version

When the manufacturer adds new features to the module *G10C*, firmware of the previously bought module can be updated:

- 1. Download the latest *G10C_vx.xxx.prg* update file from the website <u>www.trikdis.lt</u>.
- 2. Connect the module *G10C* to a computer and start the program *G10config*. Open directory *Firmware update* and select the file *G10C_vx.xxx.prg* saved in the computer.
- 3. Press the button *Start [F9]*. Wait until file uploading bar *Progress* is full, and then press the button *Disconnect [F8]*. Unplug the USB cable.
- 4. Plug the USB cable back in. Firmware update process may take 60-90 seconds. Wait until indicator **Data** will stop flashing green and press the buttons **Connect [F2]** and **Read [F7]**. The new version of the module firmware will be displayed in *G10config* program status bar.

Setting of configuration remotely

In order to set module *G10C* operating parameters remotely a SMS message with the particular syntax must be sent by GSM number of SIM card put in the module *G10C*. When the module *G10C* receives this SMS message it opens GPRS communication session with software *IPcom*.

······································				
Name	Telephone			
T01				
T02				
T03				
T04				

If during the previous setting module operating parameters were being entered GSM number of authorised person in the list *G10config / Settings / Wireless programming phones*, the module *G10C* will open GPRS communication session, if it receives SMS message with particular syntax from authorized person's phone.

SMS message text structure (word space means space between SMS text symbols):

 $CONNECT_{space} 1234_{space} SERVER = 100.100.100.100_{space} PORT = 1000_{space} APN = provider_{space} USR = name_{space} PSW = psw_{space} ENCR = enc (SPAC) = 1000 + 10000 + 1000 + 1000 + 1000 + 1000 + 1000$

Note: entering values use capital letters!

Description of syntax:

CONNECT	Enter the word "CONNECT" means starting command;	
9874	Enter your 4-digit access code to module parameter configuration (default is	
5074	1234);	
	Enter the word "SERVER=" + enter IP address of the IP receiver, from which	
SERVEN-Value	module operating parameters will be configured;	
POPT-value	Enter the word "PORT=" + enter port of the receiver, from which module	
PORT-value	operating parameters will be configured;	
	Enter the word "APN=" + enter the GPRS access point name of network where	
APN=value	SIM card is operating. If GSM service provider doesn't require any value must	
	be entered, just leave _{space} APN= _{space} in SMS;	
	Enter the word USR= + enter the User name of GPRS access point name of	
USR=value	network where SIM card is operating. If GSM service provider doesn't require	
	any value must be entered, just leave _{space} USR= _{space} in SMS;	
	Enter the word "PSW=" + enter the Password of GPRS access point name of	
PSW=value	network where SIM card is operating. If GSM service provider doesn't require	
	any value must be entered, just leavespacePSW=space in SMS;	
	Enter the word "ENCR=" + enter the 6-digit messages decrypting key which is	
EINCK=Value	set in IP receiver (default is 123456).	

Order of actions after the message is sent:

- 1. Open the window of software *IPcom* and select the object ID, which operating parameters of transmitting module should be changed. To select, right click on the ID number.
- 2. Open the configuration program *G10config*. Left click on the icon *G10config* has been appeared beside the selected ID number.
- 3. Click on the button *Connect* in the opened program *G10config* tool bar. GPRS connection status "*Connected*" must be indicated in the program's status bar. Click the button *Read [F7]* on, old configuration to be displayed.
- 4. Further actions are identical as when the module is connected to a computer with a USB cable. Just set the desirable values of module operating parameters in the opened program *G10config* windows.
- 5. After entering desirable values click the button *Write [F6]* on, the values to be set in the module *G10*. Just close the program *G10config* and GPRS communication session closes too.

🛃 IPcom						_1012
File Settings About Control Refresh control Refresh every: 10 Objects control Remove object	* seconds <u>Refresh</u>	Options			Object state Waiting for I Waiting for Summary Lo	summary SPRS: SMS: Ist
Object ID IP	Phone number	Communication state	Level	GPRS last ping	GPRS ping interval	GSM last ping
4321 Gconfig	152	Waiting for GPRS message	9	2010.03.23 15:13:31	60	N/A

Firmware version upgrading remotely

Connect the module G10C with the program G10config remotely (See previous chapter how to connect remotely).

- 1. Open the program *G10config* (See previous chapter how to open the configuration program)
- 2. Press the button *Connect*.
- 3. To read the parameters set in the module press the button *Read*.
- 4. Open the window *Firmware* and with clicking on the button *Browse* select the latest version of the firmware file. Press the button *Start*.
- 5. Wait until the firmware will be written into the module processor memory. This may take 1-3 minutes, after which the module will reconnect to the program *G10config*.
- 6. Set the module operating parameters in the same way as described while connected via USB port.

Remote control of the module

In order to change the status of output *OUT1*, send an SMS message to module SIM card number. Examples of SMS messages are given in the table.

Notes:

- If the table *Wireless programming phones* is empty, the module will change its output status after receiving an SMS message from any phone. If telephone numbers are entered into this table, module output status can be changed only from these phones;
- Output status can be changed when the operating mode for output OUT1 is set to **Remote PGM control SMS**;
- SMS message should be written in capital letters only!

SMS message text	Description	Note	
OUTPUT_1234_ON	Output status is changed to ON	Instead of numbers 1234 enter the	
OUTPUT_1234_OFF	Output status is changed to OFF	Administrator or a User code.	
OUTPUT 1234 PULSE=005	Output status is changed to ON for a	Symbol "_" indicates a space in SMS	
	time period entered in seconds	message text.	
RESET_1234	Module is restarted		

Technical parameters

	Power supply voltage	DC 12,6 ± 3 V
_	Used current	60–100 mA (stand-by)
		Up to 250 mA (transmitting)
	GSM modem frequency	850 / 900 / 1800 MHz
	Memory	Up to 60 messages
	Inputs	4+1, NC type
	Output	1 OC type, commutating a direct 1 A current with 30 V voltage
	Setting configuration	Through the USB port
	Operating environment	From -10 °C to 50 °C, with relative air humidity 80% with +20 °C
	Dimensions	65 x 79 x 25 mm

Package contents

Module G10C	1 pc.
Adhesive fastening tape (10 cm)	1 pc.

Note:

GSM antennas of desired type are collected by the additional request.

ANNEX 1. Non-alarm events transmitted to ARC

Event description	Ever	Nataa	
Event description	Activated	Restored	Notes
Device TEST message	E 602	-	
Time is specified yes / no	E 700	R 700	Not specified
Connection with the security panel lost / restored	E 702	R 702	
PING signal through SMS channel	E 750	-	
Connection by SMS channel: lost / restored	E751	R 751	
PING signal through GPRS channel	E 760	-	
Connection by GPRS channel: lost / restored	E 761	R 761	
PING signal dialled in DTMF tones	E 770	-	
1 st NC input Activated / restored	E 144 99 999	R 144 99 999	Input mode

ANNEX2. Texts of SMS messages which are sent to mobile phone after occurring particular event

Control panel	Sent	Text	
CID code	as	Existing	In CID standard
Г /D 100	E 100	MEDICAL PANIC ALARM	Medical Alarm
E/K 100	R 100		
E/D 110 11E	E 110	FIRE PANIC ALARM	Fire Alarm
E/R 110, 115	R 100		
Г / Л 1 2 0	E 120	PANIC ALARM	Panic Alarm
E/R 120	R 120		
E 121		DURESS ALARM	Duress Alarm
E/D 120 144	E 130	ALARM	Burglary Alarm
E/R 130, 144	R130	Alarm restore	Burglary Alarm restore
Г /D 201	E 301	AC Power failure on control panel	AC Loss
E/K 301	R 301	AC Power failure restored on control panel	AC Loss restore
E /B 202 200	E 302	Battery Power failure on control panel	Low System battery
E/R 302, 309	R 302	Battery Power restored failure on control panel	Low system Battery restore
Г/Л 221	E 321	Bell trouble on control panel	Bell 1
E/K 321	R 321	Bell trouble restore on control panel	Bell 1 restore
	E 351	Phone Line trouble on control panel	Telco 1 fault
E/K 351	R 351	Phone Line trouble restored on control panel	Telco 1 fault restore
E/R 400, 401,	E 401	OPEN by	Open by user
406, 451	R 401	CLOSE by	Close by user
F /D 400	E 408	Quick DISARM	Quick DISARM
E/K 408	R 408	Quick ARM	Quick ARM
E 602	E 602	Periodic Test	Periodic test report