



GSV0q, GSV0c, GSV0e Installation manual

1. Safety instruction

- The device must be installed in a place with limited access.
 - The communicator contains a radio transceiver operating within GSM and/or LTE frequency ranges.
 - DO NOT USE the communicator where interferences can arise due to influences of other devices and may cause potential danger.
 - DO NOT USE the communicator close to medical devices.
 - DO NOT USE the alarm system device in a dangerous environment with the risk of fire and explosion.
 - Before performing any work of installation or service **always** disconnect the device from power supply.
 - Device installation and service should be performed by trained personnel with sufficient knowledge about the device and general safety requirements to work with low voltage (up to 1000V) AC power lines. In case of a device malfunction, repair works can only be performed by qualified personnel. If the system is malfunctioning, the end user should inform qualified personnel as soon as possible.
 - The communicator comes with a built-in LED indicator, which blinks when the communicator is powered up.
- General safety requirements:
- do not touch transformer, fuse block and connection wires when the main power supply is

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plugged in;

- it is forbidden to perform any device installation or service work during lightning.

This installation manual must be used in conjunction with the control panel manual. All the safety instructions specified within that manual must be observed. This installation guide provides the basic wiring, programming information.

Please act according to your local rules and do not dispose of your unusable alarm system or its components with other household waste. Utilization of this product in EU is covered by European Directive 2002/96/EC.

Note: instead of repeatedly listing the communicator group GSV0q, GSV0c, GSV0e, the general name GSV0 will be used throughout the manual.

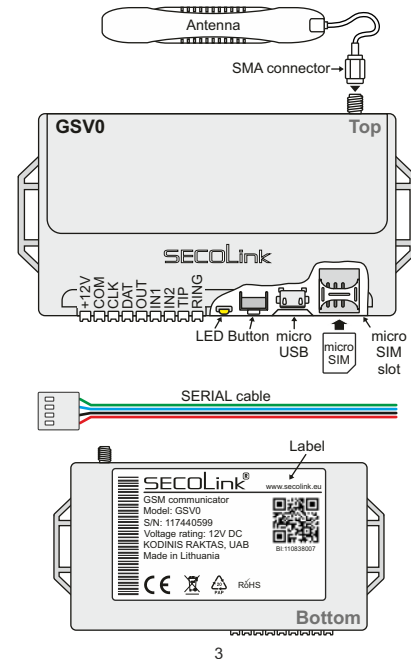
1.1. Tamper protection

The communicator must be installed in a plastic casing protected by a tamper switch.

2. What's Inside?

- 1 x communicator GSV0
- 1 x antenna with SMA connector
- 1 x SERIAL cable
- 1 x installation set: cable ties, double sided tape; attachment screws.
- 1 x installation manual

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3. About GSV0

The main purpose of the communicator GSV0 is to send notifications from the compatible control panels to the end user's mobile device or to Central Monitoring Station (further CMS).

Communicator GSV0 can be connected to DSC, PARADOX, SECOLINK control panels via data interface. If the control panel does not have a compatible data interface, GSV0 can be connected to the control panel's PSTN dialer and / or to the key-switch zone or PGM outputs.

The control of the communicator GSV0 could be proceeded using SMS or via internet (app SECOLINK PRO is required).

The end user could enter the control command in SMS messaging app and send such a text to the communicator or the end user could use the app SECOLINK PRO that will „insert“ the control command for him into SMS messaging app and he will need to tap on the button *Send*.

A more convenient way is to control the GSV0 using the cloud services. The GSV0 comes with **6 months** of paid cloud services, so the end user can take full advantage of the app SECOLINK PRO. Unlike control of the system using the SMS service, control using the cloud services is processed in the background – the control commands are sent to the system without end user interaction, messages from the system are also received directly into the app and seen in the even log.

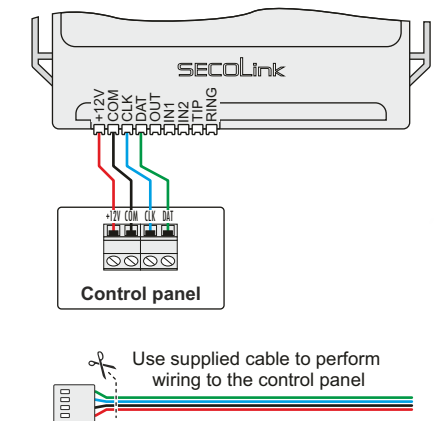
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4. Installation

4.1. Wiring to SECOLINK

Compatible control panels: Pxx and PAS8xx series.

Wiring diagram:

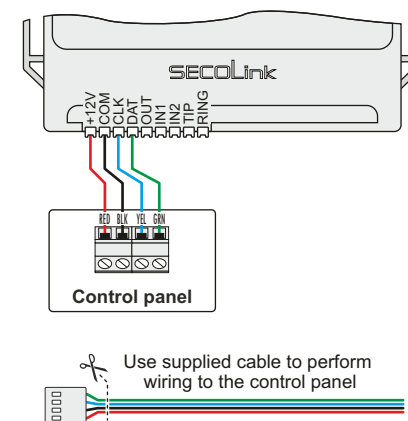


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4.2. Wiring to DSC

Compatible control panels: PC5xx, PC5xxx, PC1404, PC15xx, PC16xx, PC18xx.

Wiring diagram:

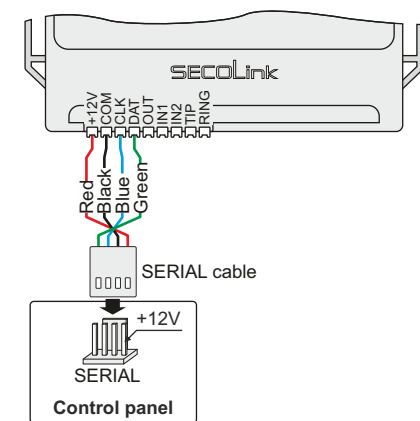


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4.3. Wiring to PARADOX

Compatible control panels: EVO192 / EVO HD / SP4000 / SP5500 / SP6000 / SP7000 / MG5xxx.

Wiring diagram:

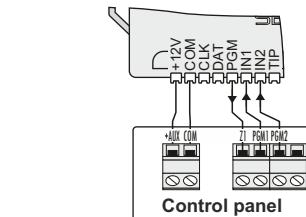


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4.4. Connecting the GSV0 to other control panels using inputs/outputs

Locate two PGM outputs and one zone on the control panel, connect them as shown in the diagram below. PGM outputs must be open collector type (makes „minus“). If the control panel output type is different, use relays.

Wiring diagram:



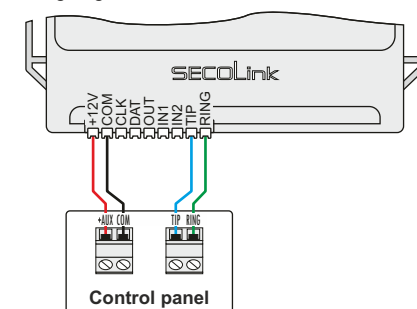
Note: by default, the loop type of the IN1, IN2 inputs of the GSV0 is set to NO (Normally Open). The loop type can be changed using the GSV0 GSV1 Loader software.

Note: the configuration guide for the GSV0e4 communicator's additional inputs and PGM outputs is available as a separate document, which can be downloaded from www.secolink.eu.

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4.5. Wiring to control panel PSTN dialer

Wiring diagram:



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4.6. SIM card

To fully operate the communicator requires a SIM card (size: micro SIM). Depending on the desired GSV0 functionality, SMS, call or data plans must be activated on the SIM card. It is recommended to use a SIM card with PIN protection turned off (without a PIN code), otherwise the PIN code will need to be entered using the software GSV0 GSV1 Loader.

5. GSV0 registration

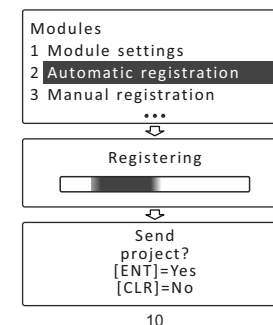
5.1. SECOLINK

The new module registration and data synchronisation procedure should be done every time when adding module into SECOLINK alarm system.

5.1.1. Automatic registration

Modules are registered when the system is in *Service mode*. The permission to use the *Service mode* for security reasons is granted by the user by entering his PIN code. Default PIN codes: First user PIN code – **0001**, Installer PIN code – **0000**.

Main Menu ▶ Service Mode ▶ System setup ▶ Modules ▶ Automatic registration



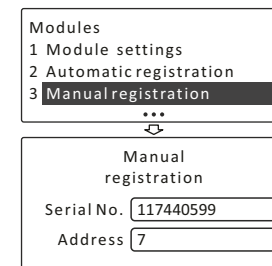
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5.1.2. Manual registration

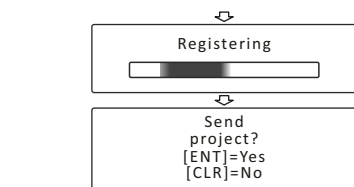
To manually register the module type in a 10 digit serial number, which is on the module's label (see the picture below), then press the [ENT] key to jump to second row, enter module address of the system, and press [ENT] again to start registration.



Main Menu ▶ Service Mode ▶ System setup ▶ Modules ▶ Manual registration



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Once module registration passes (automatic or manual), the pop-up message with a suggestion to send project will appear on screen. Press [ENT].

5.2. DSC

For DSC control panels in the list of compatible panels, the GSV0 registration step is skipped.

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5.3. PARADOX

To make the GSV0 work with the control panel, do the following:

Table 1. Paradox EVO192 / EVO HD

Action	Keypad entry
Date and time	
Entering Programming mode	press and hold the 0 key
Enter installer code (default code is 000000)	000000
Go to menu PC Password	3012
Enter 4-digit number: 1234	1234
Exit Programming Mode	3 x CLEAR

Table 2. Paradox SP4000 / SP5500 / SP6000 / SP7000 / MG5xxx

Action	Keypad entry
Date and time	
Entering Programming mode	ENTER
Enter installer code (default code is 0000)	0000
Go to menu PC Password	911
Enter 4-digit number: 1234	1234
Exit Programming Mode	CLEAR

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Important! The manufacturer of PARADOX control panels locked the SERIAL connection for EVOxxx control panels from firmware version v.7.5. The SERIAL connection can be unlocked for an additional fee. For more information, contact your local distributor or send an email to our support team: support@secolink.eu

5.4. OTHER CONTROL PANELS

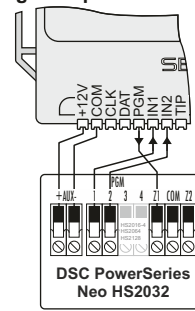
This paragraph is intended for control panels whose connection to the GSV0 corresponds to the connection diagram described in 4.4. paragraph. In order for the GSV0 to arm/disarm the other manufacturer alarm system the following steps must be performed in the control panel:

- select an unused zone and set loop type to NC (normally closed);
 - set the zone definition corresponding to the following operation: closed zone – the alarm system is armed, open zone – the alarm system is disarmed. Different manufacturers refer to the definition of this zone in different ways, such as: „Maintained key-switch arm“, „Maintained Keyswitch“, etc.
- In order for the GSV0 to report alarms and the status of the alarm system (armed/disarmed) the following steps must be performed in the control panel:
- select first PGM output and set the definition to match the following operation: the output is activated when an alarm occurs in the system.

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- set the activation time of the first PGM to be longer than 0.4 seconds when an alarm occurs.
 - select the second PGM output and set the definition to match the following operation: the output activates when system is armed, the output de-activates when system is disarmed.
- You can find how to make the settings in the programming manual of the control panel. Default settings for GSV0 inputs / outputs:
- input IN1: 24h burglary.
 - input IN2: Arm + Restore (Disarm)
 - PGM output OUT: Arm/Disarm + attrib. *Inversion*

5.4.1. DSC NEO HS2032 control panel programming example



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- Enter the installer programming mode:
[*] ▶ [8] ▶ [Installer code] ▶ ▶
Default Installer code: 5555.
- Set zone type *Maintained Keyswitch Arm*:
▶ ▶ [001] ▶ [001] ▶ [067] ▶ [#] ▶ [#]
- Set zone attribute NC:
▶ ▶ [002] ▶ [001] ▶ [9] ▶ [1] („1“ on) ▶ [#] ▶ [#]
- Check/set zone assignment to partition:
▶ ▶ [201] ▶ [001] ▶ [1] („1“ on) ▶ [#] ▶ [#]
- Set PGM types for PGM1 and PGM2:
▶ ▶ [009] ▶ [001] ▶ [101] ▶ [115] ▶ [#] ▶ [#] ▶ [#].

5.5. Programming control panel PSTN dialer

This paragraph is intended for control panels whose connection to the GSV0 corresponds to the connection diagram described in 4.5. paragraph. Please refer to the programming manual of the control panel to correctly program PSTN dialer settings:

- Reporting: *Enabled*;
- Protocol: *Contact ID*;
- Phone number for connection: 12345;
- Dial tone check: *Off*;
- Telephone line monitoring: *Off*.

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6. Programming the GSV0

When GSV0 is connected to SECOLINK brand control panel, the GSV0 can be programmed using system keypads:

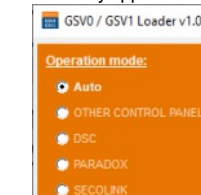
- KM24 / KM24Av.6.001
- KM24G v.6.001
- KM25 v.1.001

or using the software GSV0 GSV1 Loader.

When GSV0 is connected to other brand control panel the communicator can only be programmed using the software GSV0 GSV1 Loader.

6.1. Operation mode selection

Operation mode *Auto* is a default setting for GSV0. The communicator continuously checks terminals CLK, DAT and if it detects any packets on the terminals it will perform a procedure to determine which control panel it is actually connected to (DSC, PARADOX or SECOLINK) and what default settings should be automatically applied.



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Select the operation mode *OTHER CONTROL PANELS* if the communicator GSV0 is connected to the TIP, RING terminals of the control panel. Reports must be sent by the control panel using the Contact ID protocol.

Select this mode also when the communicator GSV0 is connected to the zone or PGM outputs of the control panel.

Unlike the other operation modes, this mode will have only one PIN that will be common to all users. This PIN must be entered in the *General settings* window.



Select the operation mode *DSC* if the communicator is connected to the data bus (KEYBUS) of the DSC control panel. Wiring diagram and list of compatible control panels are given in 4.2. paragraph.

DSC alarm system can be armed using "Quick arm keys" (factory default setting) or by entering the PIN code - "User code". The advantages and disadvantages are listed in the software *GSV0 GSV1 Loader*.

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Reporting to CMS receiver

6.5. Sending SMS / calling

User phone numbers - this setup window is used to enter the user phone numbers to which the GSV0 calls or sends SMS in case of an alarm, arming or disarming, and etc.

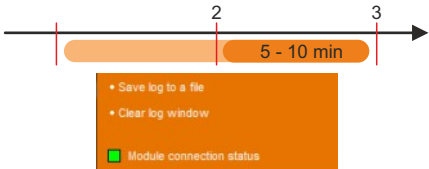
Phone number should entered by following international phone number formatting guidelines:

[country code][area code][local phone number]

There is no need to enter the plus sign ("+"), since it is automatically added by the software.

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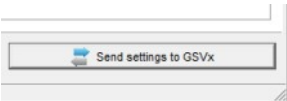
2. Trigger the communicator to send an event to CMS / send SMS or make a call. What action must be taken depends on the problem. Leave the software running for 5 to 10 minutes to record modem activity how it is now performing the required tasks.
3. Press button *Save log to a file* to save all log records into to the file.



Briefly describe the problem, attach the compressed file to an email and send it to distributor or manufacturer for further analysis.

8. Sending settings to GSV0

To send data to GSV0, click the *Send settings to GSVx* button.



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General settings

Select the operation mode *PARADOX* if the communicator is connected to the SERIAL port of the *PARADOX* control panel. Wiring diagram and list of compatible control panels are given in 4.3 paragraph.

In order to establish a connection between the intruder alarm system and GSV0 via a SERIAL port, it is necessary to program a *PC password*. This 4-digit password identifies the GSV0 to the panel before establishing communication. Program the same *PC password* into both the control panel and GSV0 (default in GSV0: 1234). If passwords do not match, the GSV0 will not establish communication and control will not be available. The password must be entered in control panel section [911] or [3012] (see 5.3 paragraph).

GSV0 can automatically detect the control panel, however it is recommended to set the panel manually.

When control panel EVOxxx is selected, the

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User phone numbers

6.6. System configuration and phrases

In the SECOLINK alarm system, all system element names and SMS phrases are synchronized during the data transfer procedure, which is performed immediately after the module registration (paragraph 5.1).

If the GSV0 is connected to an alarm system of another brand, check the box next to the specific element used in the system and give it the appropriate name that will be visible in the SECOLINK PRO app.

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9. APP SECOLINK PRO

1. On your phone, open the *Play Store* or *App Store* app.
2. Find an app SECOLINK PRO.
3. Tap *Install* or *Get* button. If you see the "Open" button instead of a *Install* or *Get* buttons, you already downloaded the app.
4. Open the app SECOLINK PRO.

5. Select language.
6. Tap on *Let's start* and follow the steps in the application wizard to pair the system (communicator) with the user's mobile device.

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selected baud rate in section [3035] should match the baud rate of GSV0.

In order to check is everything ok with a settings press the button *Try to connect*.

General settings

Select the operation mode *SECOLINK* if the communicator is connected to the data bus (KRBUS) of the SECOLINK control panel. Wiring diagram and list of compatible control panels are given in 4.1. paragraph. No extra programming is required in window *General settings*.

6.2. Mobile internet settings

To connect to the mobile internet, the correct APN settings are required. The APN is an address through which mobile internet is accessed. This setting is the most important for using the mobile internet on the communicator.

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APN settings may vary by network; in one case it may be sufficient to enter only the *APN*, in another it may be necessary to enter the *APN user name* and *APN password*. Contact your service provider for the correct settings. The APN settings are entered in the *General settings* window.

6.3. ALARMSERVER.NET settings

The manufacturer of the communicator GSV0 has developed the ALARMSERVER.NET cloud service (website address: www.alarmserver.net). The primary purpose of this cloud is establish a connection between SECOLINK communicators, such as GSV0, and an end-user mobile device with the application SECOLINK PRO over the internet. The setting *Enable TCP control* must be enabled, if app SECOLINK PRO will be used to control the system over the internet.

The *Registered users* list shows the names of all users who have successfully registered their SECOLINK PRO application with GSV0.

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6.7. Input / output programming

Inputs – in this settings window, the communicator's inputs are programmed by assigning them a specific Contact ID event or by entering the text that the user will receive in SMS message when the input is triggered.

Inputs

PGM outputs – the communicator output is programmed in this settings window. The control command to be entered when sending an SMS depends on the selected PGM output function:

- *Manual* – SMS command: *O*;
- *Arm* – SMS command: *A*;
- *Disarm* – SMS command: *D*;

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by changes in the operating characteristics of the hardware, or for the problems in the interaction with not SECOLINK hardware products.

System compliance & warranty

Kodinis Raktas UAB (hereunder the "Kodinis Raktas"), manufacturer of SECOLINK Intruder Alarm System, offers a Warranty for a term of twenty-four months. It declares, that product complies with essential EU directives and EU standards EN 50131-1, Grade 2, Environmental Class II; EN 50131-10, EN 50136-1, EN50136-2. For more information visit manufacturer's website www.kodinis.lt or www.secolink.eu for a complete text of declaration. SECOLINK Intruder Alarm System is designed and manufactured in Lithuania.

The warranty is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Kodinis Raktas or from its authorized distributor. During the warranty period, manufacturer shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Repaired products shall be warranted for the remainder of the original warranty period. The Purchaser assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from Kodinis Raktas or from its authorized distributor. To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Kodinis Raktas for repair or replacement shall be borne solely by the Purchaser. Kodinis Raktas warranty under this warranty does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or

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ALARMSERVER.NET

The BI number displayed in the *Additional information* field is a unique nuber to link an alarm system (communicator) with a specific user and/or an installer account.

User account in ALARMSERVER.NET can be created using app SECOLINK PRO or in website: www.alarmserver.net. Installer account can only be created in a website.

The BI number can also be found printed on the label or using the control panel in the SECOLINK alarm system (menu: *System Information*).

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- *Clear alarm* – SMS command: *C*;
 - *Arm / Disarm* – SMS cmd.: Arm – *A*, Disarm – *D*.
- The user has to start the SMS text with a PIN code and then enter the command. SMS example: 1111A- here "1111" is the user's PIN code, "A" is the command.
- Only a user whose phone number is programmed in the *User phone numbers* window can control the output (by typing the SMS commands or controlling the output using app SECOLINK PRO).

PGM outputs

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Important! In the SECOLINK alarm system, the BI number displayed in the keypad may not match with a BI number printed on the label of the communicator GSV0. Both are suitable for registration on the ALARMSERVER.NET, but the one that is visible in the keypad will be the main one.



6.4. Reporting to CMS receiver

This window is used to enter settings related to reporting to CMS company receiver. Reports are sent to the receiver via internet, so a SIM card with internet access is required. One of the four protocols can be used to report to CMS receiver. Contact the CMS company to select the required protocol. Enable the periodic test HeartBeat option and specify the frequency for checking the connection of the GSV0 to the CMS.

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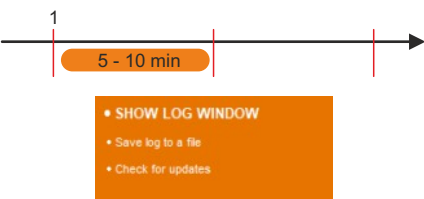
The *Output control via a short call* list stores the telephone numbers of the users that control the output (the output function must be *Manual*). During a call to the communicator, the communicator itself will reject the call and take the specified action.

7. Activity logging

Activity log records provide an audit trail that can be used to understand the activity of the device and to diagnose the problems.

Important! Do not restart system or device prior the activity logging.

1. Connect USB cable into the GSV0 and run *GSV0 GSV1 Loader software*. Click the button *SHOW LOG WINDOW* to open the event log window. Leave it running for 5 to 10 minutes to record modem activity at present moment. **No other actions are required!**



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Contact Us

SECOLink®

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