







INSTALLATION AND USER'S GUIDE

Version: 2.2

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Device description and function

The GSM device can be used for remote controlling (ex.: gate opener) and as an accessory to alarm centers. The module has 2 contact driven inputs and one open collector output. By using a relay it is possible for the output to be a relayed output.

It can send notification to 8 phone numbers in SMS and/or by voice message. The notification sending can be triggered by a signal arriving to any of the two inputs, by power failure, by sabotage or by arming/disarming the GSM module. The notification can be accompanied by an additional voice message that will be played when the call is answered. These recordings can be 8 seconds at most. The voice message can also be a shared identifying message with length of maximum 15 seconds.

The controlling of the output can be achieved by a free call from any phone number. If you want to control with phone number identification you can store the numbers in the inner memory of the module (in this case 1.000 entries) or on the SIM card inserted into the module. By using caller phone number identification the unauthorized triggering of the output can be forbidden.

Output can be controlled also with SMS command that can contain different settings instructions then the saved ones (ex. controlling bistable, disarmed output for 10 seconds). You can find additional information of this command on page 20.

By using OC relay the GSM module output with the expansion relayed panel can be converted to a dry relay output. Relay type is NO/NC and it can handle even 230V.

Some errors can be also authorized to control the outputs so you can receive feedbacks of system functionality or error occurrences. Now GSM network connection failure (not to confuse with GSM jammer detection that is handled separately by the module) and failed SMS sending can result in controlling.

The module can store up to 16.000 events in which appear states of the inputs and outputs, power source restarts, GSM system and module state related information, incoming and outgoing calls and SMSs.

Implemented Anti Jammer System (AJS) protects from GSM jammers. The significant dropping of the GSM strength or a network connection failure initiates a prompt alarm. In these situations module tries to send notifications using remaining network possibilities. It can be set that by controlling the output even an auxiliary siren can be controlled. This possibility is especially useful if you would like to fob the person who committed the sabotage.

Besides continuous power source monitoring the module observes also the GSM strength. These data can be readout in hourly divisions and these can be charted by the programming software.

The module can be programmed by SMS command, voice menu, PC or by Android mobile phone.





Figure 1: Device operation

Module buildup



Figure 2: The buildup of the module



Figure 3: Series terminal wiring diagram



Figure 4: Inserting the SIM card

Installation guide

Technical parameters

- Power voltage: 9-20 VDC
- Standby power drain: 25 mA
- Maximum power drain: 700 mA
- Open Collector output load: max. 30V / 400mA
- GSM module type: SIMCOM 800
- GSM frequencies: GSM 850 / EGSM 900 / DCS 1800 / PCS 1900 (Multi- Band)
- SIM card usage: brand free GSM module
- GSM antenna type: with SMA connector (comes with the package)
- Dimension: 61 x 31 x 14 mm
- Operation temperature: 0°C +40°C

Installation steps

 Carry out a signal strength check with your mobile phone. Sometimes occurs there is no sufficient signal strength at the commissioning site. In this case it is recommended to change the module position prior of installation. Do not install the device to places where strong electromagnetic waves might occur, ex. next to electric motors or alarm transformers.

Do not install in watery places or to places with great humidity.

- Connect the antenna that can be secured with the SMA connector. If you are reading low signal strength use antenna with higher gain. Signal strength grow can also be achieved by repositioning the antenna.
 Do not position the antenna under metal cover of various appliances as those might significantly ruin the signal strength.
- 3. You should opt out the PIN number request, voicemail and call notification functions of the SIM card. Sometimes new SIM cards must be activated (usually an outgoing call has to be made). Check the validity of the card. If you have a prepaid card check its balance and its usage possibilities (ex. it can be used only for calls)
- 4. It is practical to check the satisfying operation of a SIM card in a cell phone prior of insertion into a module. Number identifying of caller and at call initiations has to be checked. This function at certain service providers must be enabled formerly.
- 5. Insert the SIM card in the SIM card slot of the module.
- 6. Connectors have to be connected according to the wiring diagram. If you are dealing with OC output mind the correct wiring of the relay protecting diode.
- 7. If you are working with OC relay be cautious especially in avoiding electric shocking. A proper contact protection must be established. If you are not qualified ask for professional help.
- 8. Check if the power supply performance will be sufficient for the module. Mind the polarity. If wiring is reversed the module will not operate or might get damaged.
- 9. Now the device can be powered.
- 10. After connecting the voltage supply the red LED is lighted indicating the device is establishing connection with the GSM system (this is 1 minute utmost).
- 11. If red LED goes off and green LED flashes module is online and connected to network. The flash number(s) indicates the GSM signal strength.

Module can acquire the power needed for programming also from the USB adapter.

LED signals

Signals give essential information on module state, the GSM signal strength and the actual error codes. By blinking we mean flashes between two longer pauses.

• A STATUS LED (green) gives feedback of signal strength based on the chart below:

Flashes	Signal quality
1	Dod
2	Dau
3	Decent
4	Good
5	Excellent
LED lighted	GSM connection rejected

- An ACT LED (red) lit means the initiation process at startup. At this phase module performs the initial checkings. During operation this LED signals an event (SMS or voice call).
- If the red and green LED are flashing simultaneously it tries to communicate an error that can be identified with the chart below:

Flashes	Error code
1	Initializing error
2	Bad GSM module
3	SIM card not inserted
4	SIM card locked with PIN code
10	Modem mode

• The intermittent flashes of red and green LED means the usage of "reset" button and resetting to factory settings.

Connecting the module (PC)

Establishing connection using USB adapter

- 1. Connect the USB adapter to the *Program* labeled slot of the module.
- 2. The new USB adapters are able to provide sufficient power for GSM module programming.
- 3. Attach the USB connector of the adapter to an extension cable and plug the other end of the cable into any PC USB port.
- 4. **WARNING! If you are using Windows Xp operating system** the system offers an automatic driver installation. IMPORTANT, do not use the offered driver but carry on with the installation of the **USB driver.**

Installing the USB driver manually in 10 steps

- Acquire the required driver from our web site or from the "USB driver" directory on the CD if you
 have the USB Kit
- Use the appropriate 32 or 64 bit version for your operating system in the rest of the installation process
 - to check this use the Control Panel → System menu path (when using Windows XP ''x64 Edition" will only appear if the system is running on 64 bit)
- ✓ Connect the USB programmer to your PC
- ✓ Do not choose the automatic installation offered by the system
- ✓ Open the path Control Panel → System→ Hardware Device Manager window.
- In this window search for Unknown device (which is the programmer, later will be USB Serial port). If you cannot see it start the "Scan for hardware changes" process from the upper window menu.
- ✓ Device properties can be seen by double clicking on the unknown device.
- ✓ Start the Update driver process

- ✓ In the installation window choose the manual selection of the driver location then choose the appropriate folder containing the 32 or 64 bit driver
- ✓ Click on the Next button to start the installation.
- 5. Open the Device Manager (click on System \rightarrow Properties \rightarrow Hardware tab \rightarrow Device manager)
- 6. Search for a device named USB Serial port (COM...) under Ports
 - If a driver reinstall is needed click on the device then choose driver removal then follow instructions above.
- 7. Start the programming software.
- 8. You have to set the value in brackets [USB Serial port (COM...)] in the programming software
- 9. If this was successful you will see the name of the connected module next to the Start button

Establishing connection using a *Bluetooth adapter*

- 1. Connect the Bluetooth adapter to the GSM module and provide power to it.
- 2. Connect the black cable of the programmer to the COM between the IN3 and IN4 at the InterCom and ProCon GSM. At the other modules the black cable does not have to be connected.
- 3. Switch on the Bluetooth connection possibility on your device (PC or Android mobile phone).
- 4. Search for programmer with your Bluetooth enabled device.
- 5. After finding the adapter you can pair your PC/smart phone/tablet with the adapter by using the default "1234" code. After pairing you will find the programmer as GSM Programmer.
- 6. Search for the COM port number of the connection (usually under *Properties -> Hardware* tab)
- 7. Set the port number also in your programming software or choose the automatic port finding option.
- 8. Establish a connection with the GSM module.

If you use Windows 8 operating system the programming software should be started in "Windows XP SP2/SP3" compatibility mode (Right click on the starting icon of the program \rightarrow Properties \rightarrow Compatibility)

In every case you can check the connection. You should see the connected module name next to the Start button in the programming software and the green LED on the programmer to flash.

If you have a connection established between the adapter and your PC or smart phone you can start the module configuration.

- By clicking the Start button after the connection was established modules settings will be acquired.
- By clicking the Start/Default Settings button (after a confirmation) it will revert back the module to factory settings.
- When using the Android application settings are always acquired after establishing a connection.

Programming using the PC software

- If you have chosen configuration by PC you can use our software that is freely downloadable from our website or you can find it on the installation CD in the USB KIT.
- No installation required, you only have to copy the software to your PC.
- Compatible with Windows XP, 7, 8 and 10
- Make sure you always use the latest software!
- If a newer software version is out, the module should be updated prior to the first configuration.

ProRead	x
Version: 2019.05 Choose a language English COM3 USB COM port auto-search	
© USB © Internet © Bluetooth	Products - test ProCon GSM Test 9.2.0
Product connection Search Start	ProLine GSM Test 9.1.10 EasyCon GSM Test 9.1.8 InterCom GSM Test 9.2.0
Start/Default settings	Find Me GPS Próba

Connecting process

- Pick which connection (USB or Bluetooth) you would like to use for module programming.
- Below the language selection in the scroll down list you can select the port through which you would like to communicate with the module programmer. You can find this value (in Windows operating system) under Device manager → Com port at the connected programmer. If you cannot decide you might let the program to search for it by pressing the *automatic COM port finding*. The automatic COM port search might take several minutes.
- If the connection was successful you will see under the Product connection tab the name of the module.
- Clicking the *start* button the software makes connection to the module and configuration can be started.
- By clicking the *Start/Default config* button the module will be set back to default values after the connection was established. (Before the operation the software asks for confirmation if this feature has not been switched off before).
- If you do not want to attach a module just to inspect the settings options you can select the *Products-tryout* window where you can freely make a module properties selection and also module preprogramming.Program buildup

ProRead Service File Manuals Setting PRD READ Parameters Phone numbers Ca) Language Contact GSM Quit Client: Iller ID Inputs Dutputs Voice Ext. power monito	I Life signal Other Monitoring station Anti-Jammer System Arm/Disarm
🕕 Basic data		16:16:05 Time sync
Client name: Username: GSM phone number: Type of alarm center: Type of GSM module: Date of installation:	EasyCon GSM 2019.06.04. 16:15:47	
Read	Send	C Restart 🕑 Quit
COM3 EasyCon GSM		ProRead Version 2019.05

- Upper menu items:
 - Maintenance: basic menus needed for module maintenance (for ex. module state check, event log readout, PIN code request switch off of the SIM card, firmware upgrade)
 - File commands: Saving and loading settings
 - ^o Descriptions: viewing the wiring diagram
 - ° Settings: setting window size, switch off confirming dialogs
 - Language: language selection(available languages: English, Hungarian, Italian, German, Slovak, Slovenian, Dutch, bohemian, Finn, Romanian)
 - ° Contact: our contacts; e-mail addresses and phone numbers
 - GSM: reverting back to factory settings the GSM chip (SIM900 chip) and auxiliary PSTN line monitoring (in case of a failure), providing GSM information, saving central SMS number of the network operator
 - You can reach the various settings of various items by clicking the appropriate tab
- On the main page (*Basic data* tab) clicking the Synchronization makes the module to adjust its time to the PC clock.
- The *Reading* and *Sending* buttons at the bottom are for readout and edit of the module configuration. These

buttons are accessible everywhere except on the *Controlling phone numbers* tab. You should send data to the module with the *Send* button after every significant modification. Before sending your settings make sure those will not trigger an unexpected alert. You should readout the actual module state beforehand (*Maintenance* tab).

- WARNING! After connection always readout the settings first if you would like to alter those.
- You can restart the module with the Restart button. After monitoring is complete the module should be restarted.
- In the lower menu line you can be informed of the followings:
 - Communication port number
 - ° GSM module name
 - ° Firmware version number
 - ° Notification on the actual software process
 - ProRead version number

Checking module status

Module status			E
Module status	Δ	SC Glot	pal
Input 1.:	OFF OIL Output	t 1.: OFF ON	Tamper: OFF ON Vetwork power
Input 2.:	OFF OIL	OFFON	Power supply: ON ON
Input 3.:	OFF	OFF OIL	Arm/Disarm ON
Input 4.:	OFF	OFF ON	
Error code/CID:	No error.		100%
GSM Status:	Registered on home network		
			Quit
GSM Time:13:13	COM OK		

You can reach the

status through Servicing \rightarrow Show module status button.

By the module status query you will be informed of the followings:

- statuses of inputs
- statuses of outputs
- power supply failure notification
- actual armed/disarmed GSM module state
- displaying occurring error/event codes (ex.: no SIM card inserted, SIM card locked by PIN code)
- checking Contact ID code (to monitoring station) sending process (ex. handshake status)
- GSM connection status (ex.: connected to network, roaming, no connection, connection rejected)
- Actual GSM signal strength (refreshing in seconds)

Switching off PIN code request on SIM card

Please ei	nter the PIN of SI	IM card	
	ОК	Cancel	

Before inserting SIM card in the module the PIN code request should be switched off

- If you have not done yet then you can switch off at Service→Switch off PIN code request.
- You will see the following window, where you can input the code and its request will be switched off.

Event Log Readout

Event Lo	g		Read event	t log	🐟 Read	stop	Export Excel	Open CSV	🕘 Quit	
	EVENT	DATE		GSM 0-31	GSM Network	Note / para	neters			-
1	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected				1 0	1
2	JAMMER END	2014.06.26.	09:32:17	29	Connected					
3	Anti-Jammer	2014.06.26.	09:32:13	29	Connected					
4	JAMMER DETECT	2014.06.26.	09:32:13	29	Connected					
5	GSM logged	2014.06.26.	09:32:13	29	Connected	IMEI:01322	7009875612 SW:08.8			
6	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
7	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
8	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
9	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
10	OUT1	2014.05.29.	09:02:41	9	Connected	Off				
11	OUT1	2014.05.29.	09:02:37	9	Connected	On				
12	Incoming calls identified	2014.05.29.	09:02:37	9	Connected	+36306520	604			
13	GSM logged	2014.05.29.	09:02:01	11	Connected	IMEI:01322	7009875612 SW:08.8			
14	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
15	OUT1	2014.05.29.	08:59:31	15	Connected	Off				
16	OUT1	2014.05.29.	08:59:27	15	Connected	On				
17	Incoming calls identified	2014.05.29.	08:59:27	15	Connected	+36306520	604			
18	GSM logged	2014.05.29.	08:59:13	12	Connected	IMEI:01322	7009875612 SW:08.8			
19	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
20	OUT1	2014.05.29.	08:58:04	10	Connected	Off				
21	OUT1	2014.05.29.	08:58:00	10	Connected	On				
22	Incoming calls identified	2014.05.29.	08:58:00	10	Connected	+36306520	604			
23	Input 2.	2014.05.29.	08:57:50	14	Connected					
24	Input 2.	2014.05.29.	08:57:50	14	Connected	Restore				
25	Input 1.	2014.05.29.	08:57:46	14	Connected					
26	Input 1.	2014.05.29.	08:57:46	14	Connected	Restore				
27	GSM logged	2014.05.29.	08:57:41	14	Connected	IMEI:01322	7009875612 SW:08.8			
28	Microcontroller START/RE	2011.01.01.	00:00:01	0	Not connected					
29	Incoming calls identified	2014.05.29.	08:58:48	12	Connected	+36306520	604			
30	JAMMER END	2014.05.29.	08:58:25	9	Connected					
31	GSM logged	2014.05.29.	08:58:25	9	Connected	IMEI:01322	7009875612 SW:08.8			
32	JAMMER DETECT	2014.05.29.	08:58:22	9	Connected					
33	OUT1	2011.01.01.	00:00:01	0	Not connected	On				
34	OUT1	2011.01.01.	00:00:01	0	Not connected	On				

The event log can be viewed with Service \rightarrow Log readout button:

- It can store up to 16.000 events in FILO (first in-last out) mode
- The acquired list can be saved in "csv" file for later examination. This can be done also in the event list by clicking the "Open csv" button.
- In the token column there are event information
- In the date column notification dates are stored (divided into years, months, days, hours, minutes, and seconds).
 IMPORTANT! Date will be accurate if the clock of the module is synchronized with a PC or with a GSM network.
 The later is automatically done when the module connects to the network of the carrier.
- The **GSM 0-31** indicates the signal strength at the time of creation. 31 is the highest value, 0 indicates state with no connection.
- Network indicates if the module was connected to the network carrier at the time of creation.
- In the Comment/parameter column notification related extra information are stored.
- Initially the chart is empty; the readout can be commenced by pressing the "Readout" button.
- The newest data will appear at the top of the list followed by older entries as you go down the chart.
- If the whole chart readout is not necessary you can stop it with the "Readout stop " button.
- Read out list can be exported from the software in "csv" (Excel) chart so later it can easily be sent and stored.



Fill out basic data

🚺 Basic data	
Client name:	
Username:	
GSM phone number:	
Type of alarm center:	
Type of GSM module:	EasyCon GSM
Date of installation:	2014.06.26. 9:36:26

Readout of GSM signal strength

You can display the chart in the picture of GSM signal strength.

- The chart of GSM signal strength is available by the Service
 → Show GSM strength button
- You can have the values by pressing the *Readout* button
- Signal strength fluctuations are divided by hours. Passed time should be interpreted according to this.
- Vertical scale is calibrated from 0 to 31 on the diagram. 31 mean the best signal strength.
- Size of the chart can be altered arbitrarily by left clicking.

Important data of the installed GSM module can be set. Besides the client name and commissioning address the phone number of the inserted SIM card and the type of the attached alarm center also can be set.

- Data inserted are stored in the module
- Stored data can be useful later during servicings.

Saving phone numbers for notification

- In the phone number tab you can set those phone numbers to which SMSs and/or voice messages will be forwarded. Numbers given in this section must be in international format to ensure safe operation. (Ex.:+4455512345)
- Maximum 8 phone numbers can be set for notifications.
- You can set these numbers in the following program section. This list can be edited also by SMS with the "TELx= phone number" command, where "x' represents the ordinal number of the phone number chosen for edition.



Add phone numbe	rs for notification:
Number 1.:	+4455512345
Number 2.:	+4455554321
Number 3.:	
Number 4.:	
Number 5.:	
Number 6.:	
Number 7.:	
Number 8.:	

Saving controlling phone numbers

wn me	mory SIM card number			
1	Number		Control 1st output	Open form file
2		_		Save to file
3 4		_	Arm/Disarm	
5			Security code is not	
6			 needed in voice menu Direct DTME 	
7			control	Deed sumbars
8				from memory
9			IN4 Everytime Disabled	
10			IN Everytime Enabled	Write numbers to
11		-	Phone	memory

- At the controlling phone numbers section you can set numbers that can control the outputs.
- Phone numbers can be stored in the memory of the module (1.000 pcs). Moreover additional phone numbers can be stored on the SIM card.
- By using the inner memory the module will be indifferent to the SIM card memory.
- Always read out the memory before editing the list with the "Readout numbers from memory" button. For saving
 use the Save numbers to memory button.
- Stored numbers must be in international format.(ex.:4455512345). Attention! There is no need to put the character "+" at the EasyCon GSM!
- Storing, editing and opening of saved numbers are also possible (from .csv file).
- You can set DTMF controlling thus outputs can be controlled with cell phone button (1). Module activation and deactivation can also be achieved through DTMF commands (*).
- The list can be modified also by SMS commands: "ADD=phone number" and "DEL=phone number".
- (Example: 1234ADD=4455512345, 1234DEL=4455512345)
- You can find additional information on SMS commands on page 20

Input configuration

The GSM module has "dry" contact inputs. Before reviewing settings examine input wiring possibilities in the picture below. The two outputs can have individual settings.



Figure 5. Two possible wiring of Normal Open (NO) and Normal Close (NC) inputs

elect phone number(s) to send SMS:	Type of input:
✓ +4455512345	Phone5	01/24h normal input
✓ +4455554321	Phone6	Normal Close
Phone3	Phone7	O Normal Open
Phone4	Phone8	SMS/Call when input set back
elect phone number(s) to call:	Voice message
✓ +4455512345	Phone5	When a call is not to be taken!
+4455554321	Phone6	DTMF acknowledge during call (#) Automatic alarm at arming (IN1)
Phone3	Phone7	
Phone4	Phone8	SMS text:

You can set on this tab if there is an alarm event caused by short or open circuit on an input to which phone number you would like to send SMS or voice message notification. It is possible to send both notifications to the same phone number.

- On the *Input type* tab you can set how the input should operate:
 - 00/Not used: not used input can be switched off so no jamming signals can be received.
 - ° 01/24h normal input: 24/7, constant, input indifferent to activation status
 - (02/Backup: not used input left on so it can be used for later developments)
 - ° 03/Center input: this input will send alert only if the module is armed.
 - 04/delayed center input: in activated state this input starts a countdown (can be set on the Other tab) while you can deactivate it.
 - 05/Arming/Disarming: input to arm and disarm the module. This can be controlled with continuous contact (ex key switch). Normally closed state is suggested so wire cutting in the circuit will trigger a prompt alarm.
- The input can be set to be normally opened (NO) or normally closed (NC).
- An SMS message can be sent if the input reverts back to its normal state.
- If siren sound is selected as alarm sound voice call duration will be 25 seconds of siren sound. If also the voice message option is selected the duration will be only 5 seconds.
- At voice message transmission prerecorded or custom sound can be sent via voice call (Sounds tab).
- Remote monitoring center can also be notified of the input state change.
- You can set a no pickup mode so module will not try to call again if the call was received regardless it was accepted or rejected.
- When DTMF confirmation is selected it is not enough to receive the call, it has to be confirmed with the "#" button of the mobile phone. By pressing the "*" button multiple calls can be even stopped.
- The first input can be set to send notification if module is powered on. Thus the module indifferent to its state will initiate an alarm event. This function is suggested when you want the module power-on to initiate an alarm event.

- In the SMS message box you can set the message that can be maximum 32 characters long.
- Input modifications can be achieved by SMS commands with the following parameters:
- 1234INPUT1=tnneeeeeeee
- t: 0 → switched off 1 →24h normal 2 → backup 3 → alarm normal 4 → alarm delayed nn → NO or NC eeeeeeeee: Other parameters: 1.e=1 → Message of reverting back 2.3=0 → Compulsory 0 3.e =1 → siren sound 4.e=1 → Voice message 5.e=1 → Monitoring station 6.e=1 → no need to pickup at call 7.e=1 → DTMF acknowledge (#) 8.e=0 → Compulsory 0
- You can find additional information on SMS commands on page 20.

Voice message settings

Identification	Internal	Supload
Input 1. Input 2.	Internal Internal	Upload Upload
Power.	Internal	🕒 Upload 🛛 🕨 🗖 🔴

In the **Sounds** menu a specific alert can be associated with a prerecorded voice message.

- The function of the **identifying message** is to identify the module (ex. address, building name) if you are waiting messages from several modules.
- If you click the red record button you can record your own voice with a microphone attached to your PC. This can be up to 8 seconds in length or 15 seconds for the identifying message.
- During voice recording it records from the default
- microphone. Sometimes it needs to be adjusted (ex. amplify) for the optimal volume and quality.
- By clicking the Play button you can listen to your recording.
- If you would like to upload a prerecorded sound file than you can open a file upload window by clicking the appropriate event button. The file format has to be compatible with the audio format used on GSM networks. It has to be 8 kHz sampling rate, 8 bit, mono PCM modulated "wav" file. When you have the desired sound it can be uploaded to the module by clicking the *Upload* button.

Adjusting outputs

Output settings	
Monostable	•
Time:	
⊙ Sec ○ Min 3 🜩	Test
Control with Caller ID	
Control at alarm	
	utput char

On the *Output* window the output settings can be changed. The output type can be *monostable* namely one statused, (switches off for the given period than reverts back to the original status), or *bistable* namely two statused (it only will revert back to original state after a new controlling).

- Regarding monostable operation switch time can be set in seconds (max 65.000) or minutes.
- The Unsuccessful SMS means output will be controlled when network operator rejects an SMS sending.
- Choosing GSM fault output will be controlled as long as GSM network reverts to its normal state
- Regarding output controlling it can be set if you want to control with incoming call or it should be activated by an alarm event (ex. in case of 24/7

active input).

- When controlling with caller identification is set you can choose between controlling with unidentified or identified phone number.
- Anybody can control the output with unidentified phone number controlling if he/she knows the phone number of the SIM card.
- If the phone number identification is selected controlling from a **phone number** not in the list will be denied. This greatly improves module safety regarding unauthorized controlling.
- Output settings can be modified by sending the following message: 1234OUTx→ Selectable parameters: ON, OFF, RUN or switch to a certain time (given in 5 characters) Example: 1234OUT1=00003 → controlling output 1 for 3 seconds You can find more information on SMS commands on page 20.

Usage of OC Relay

EasyCon GSM has open collector output. On the series terminal of the GSM module when controlled through "O" terminal it will result in short at the negative terminal of the panel.

This results in the same voltage between power supply and the "O" terminal.

By using the OC relay this output becomes a dry relayed output as in the picture below.





Connect it to OC output

The OC relay has to be connected directly through its "+12V" and "Out" series terminal with EasyCon GSM power source and with the (O) output.

OC relay has a protecting diode so mind particularly the correct wiring. At switched wiring the output might get damaged.



12V – 12V, O - OUT



Follow strictly the wiring diagram

If you are not sure of the correct wiring you can find it on the panel of the OC relay. On the output of OC relay you receive dry relayed contact that can control even high voltage (230V maximum)

Power supply monitoring setup

The GSM device is able to monitor its power source and send notification of its problems

- Under the "Power monitor" tab the trigger voltage level can be set.
- Our Pro series modules have battery connectors that can be used to connect the Pro Battery.
- IMPORTANT! Modules without auxiliary power supply will switch off if the main power supply is flat.
- The remaining function settings equals with the input settings.

Life signal





By life sign sending the user can be sure about the flawless operation of the system.

- The life sign sending periods can be set in days and hours.
- To use this feature *Send life sign* check has to be selected!
- It is also important the day of the first sign can be scheduled not to arrive on the day of setup. The life sign activation day can be set.
- You can modify life sign sending with the following SMS command: 1234LIFETEST=cccssttttttt ccc → sending cycles/days (ex.: 007 days)

 $ss \rightarrow hour \ of \ sending \ on \ a \ day$

tttttttt \rightarrow which telephone number will be notified (ex.: 00100000 \rightarrow it will send the message to the 3rd phone number)

• You can find more information on SMS commands on page 20.

Anti Jammer System (AJS) settings

By using a GSM jamming device the GSM module can be sabotaged by suppressing heavily the network signal strength or by its complete suspension. The Anti Jammer System (AJS) is monitoring the changes in signal strength of the GSM network.

- You can set which output you would like to control instantly when there is an Anti Jammer System event (ex auxiliary siren).
- Sending SMS/making voice call can be achieved only if there is still some connection with the network. If there is no connection sending will be completed when network signal is available.

SMS notification of arming/disarming

Settings of A	rm/Disarm	
Select the phone numb	ers at opening to	SMS text (at opening):
 +4455512345 +4455554321 Phone3 Phone4 	 Phone5 Phone6 Phone7 Phone8 	SMS text (at dosing):
Select the phone numbers	at closing to	Automatic opening (o'dock)
+4455512345 +4455554321 Phone3	Phone5 Phone6 Phone7 Phone8	Arm/Disarm notify sending back to phone number

ect phone number(s) to send SMS:	SMS text:
+4455512345	Phone5	
+4455554321	Phone6	Siren in the phone Call
Phone3	Phone7	Monitoring station notification
Phone4	Phone8	Control 1st output
ect phone number(s) to call:	
ect phone number(s +4455512345 +4455554321) to call: Phone5 Phone6	
ect phone number(s +4455512345 +4455554321 Phone3) to call: Phone5 Phone6 Phone7	

At opening/closing namely at module arming/disarming you can receive a notification SMS.

- You can set the SMS text that can be maximum 32 characters long.
- An automatic module arming/disarming time can be set. This needs arming and disarming time.
- Besides to the notified numbers a notification SMS can also be sent to controlling number.

Other setting options

Other module settings can be found on this tab. For better accessibility we have organized these parameters along several categories: general voice call and SMS.

On General tab you will find the followings:

🛞 Other set	ttings	
General Voice ca	II SMS	
Choosing the expa	and module	
		🗌 Caller ID arm/disarm
Entry time	30	
Exit time SMS text for Input	60	Input sensitivity: Normal
Restore:		🔲 Voice menu disable
PC security code		

- Entry postponing used with delayed input
- Exit postponing defines the time devoted to leave zones after arming
- Setting SMS message when alarm comes in effect (SMS command: 1234SMSTEXT16=sms text*).
- PC security code modification (at empty field the code is not required)
- Saving output state to inner memory, so at powering on output state will be set according to saved value.
- Activation with caller identification can be set here if you want to arm/disarm the module with a call.

- Input sensitivity (in switched off state: 10 ms, low: 100 ms, normal: 400 ms, average: 1 sec, high: 5 sec)
- Voice menu switch off can be made here

On Voice call tab you can find the followings:

Ring Time [sec]:	30 🗢	
Max number of redials:	50 🚖	
Talking time	90 🚖	
Circular calling		

- Voice call parameters: setting ringing and talking time and number of call attempts. (SMS command: 1234RINGTIME=030 → ringing for 30 seconds)
- By selecting multiple call option every notified phone number has to acknowledge the call.

On SMS tab you can find the followings:

SMS redirection: SM	IS header:
+4455512345 🗸	120 character
SMS security code: 1234	
Daily SMS limit: 30	f = 255, then disabled
Max. retry on error: 4	

- SMS forwarding to one of the 8 telephone numbers. Warning! Never select the number of the module!
- Also here you can set the SMS programming security code
- Daily SMS limit: it can be set how many SMSs can the module send a day. This limit can be removed by entering 255. If you set limit to 0 the module will not send any SMS!
- Number of maximum SMS sending attempts also can be set.
- Forwarding SMS arriving to the module to the phone number to be notified. (SMS order: 1234REDIR=1...8)
- SMS header, which will appear at the beginning of every message.

Programming with Android based mobile phone

Androread

Connecting to the module



When you launch the application first you must pair the choose GSM module with the Androread. With the "Available Devices" button you can connect to the desired GSM module. In addition, the module connects automatically. Therefore, giving a pairing code is not necessary.

By tapping the "Paired Devices" button and choosing a device, a status line runs while the program reads out actual module settings and state.



The menu tree

Basic data	settings can be achieved in the menu in two ways either sweeping among screens, or by tapping the menu button in the lower-left side of the bottom.	Caller ID	* 1¥3 19 af 269 1
Client name: With	n the menu button we can reach all of the settings promptly.	Module status Restart	
Installation address: We inclu	have the possibility to configurate the main settings of the communicator ides notified phone numbers, output control input settings etc. When we	Basic data	
GSM phone number: have	e modified the settings, we can send the settings to the module by tapping	Phone number settings Output settings	
Type of alarm center:	icon at the bottom of the software, you can achieve the description of every	Settings of inputs	+
Type of GSM module: ProLine GSM SCIE	een by tapping the icon in the upper-right corner of the screen.	Settings of Tamper	-
Date of installation: 2017.02.22. 8:40:51		Settings of Ext. power mon	nitor
		Life signal settings	



Caller ID/Module status

Ref # ut 33% = 14: Phone number identification	By choosing the "Caller ID" option, we can save phone numbers to the memory of the module. First the module reads out the phone numbers from	Modul	* № ≝ af 33% ≣ 14:46 e status
+ Q	the memory. Afterwards, we can give the numbers along with assigning the	Client name: Type of GSM module: Pr	oCon GSM
+36201234567 X	different functions like arming/disarming or controlling output 2. We can store	IN1	OUT1
× +36301111222	up to 1000 phone numbers.	IN2	OUT2
 +36702222444 Control 1st output 	The software allows us to check the actual status of the module on the	IN3	OUT3
Control 2nd output	Module status" menu. Here we can see the state of the inputs outputs	IN4	OUT4
Control 3rd output	"module states mend. Here we can see the state of the inputs, outputs,	Tamper:	Network power
Control 4th output	and the actual state of the CSM network	Power supply:(11V)	93%
Arm/Disarm	and the actual state of the GSWI hetwork.	Arm/Disarm	
Security code is not needed in voice menu Direct DTME control		GSM Status: Registered	on home network
Everytime enabled			
IN4 Everytime Disabled			
IN3 Everytime Enabled			

Programming with SMS commands

Module can also be programmed by SMS commands. SMS must start always with the security code that can be modified whenever you want. Commands can be piled but the SMS length must be under 160 characters.

If it is possible module will send reply SMS after every SMS. You can switch this off with NOSMS command or with the RECALL command that will make the module to call after a successful programming.

Command Criteria

- can not contain accented characters
- every letter in the command must be capital
- commands have to be separated by space
- you can substitute = with #
- messages must start with the security code which is followed by the first command without space
- SMS text command must end with the * character

Command list

Description	SMS command		x value		value after = sign	Example
Editing SMS security code	CODE			=	new security code	1234CODE=4321
Adjust clock	CLOCK			=	yymmddhhmm yy: year, mm: month dd: day, hh: hour mm: minute	1234CLOCK=1401200922 Date will be: 2014.01.20 09:22
Save telephone number for caller identification	ADD			=	telephone number (with 44)	1234ADD=4455512345
Removing telephone number from caller number identification list	DEL			=	telephone number (with 44)	1234DEL=4455512345
Saving/editing telephone number for notification	TEL	x	telephone ordinal number from 1 to 8	=	telephone number (with +44)	1234TEL1=+445551234
Input setup	INPUT	x	input ordinal number	=	tnneeeeeee t:0 \rightarrow switched off, 1 \rightarrow 24 h normal, 2 \rightarrow backup; 3 \rightarrow normal alarm 4 \rightarrow delayed alarm nn \rightarrow NO or NC eeeee: Other parameters: 1.e=1 \rightarrow send SMS of status revertion 2.e=0 \rightarrow compulsory 0 3.e=1 \rightarrow siren sound 4.e=1 \rightarrow voice message 5.e=1 \rightarrow remote surveillance 6.e=1 \rightarrow no need to pickup when calling 7.e=1 \rightarrow DTMF confirmation (#) 8.e=0 \rightarrow compulsory 0	1234INPUT1=INC00100000 First input is: -24 h normal -Normal Close - not sending SMS when reverts back to initial state - plays siren sound when calling - no voice message - no remote surveillance notification - when calling must be picked up -no need for DTMF confirmation
Output setting	OUTCONF	x	output serial	=	iiiii→if 00000 then it will be bistable, otherwise it is the duration of control in seconds $r \rightarrow$ controlled when alarm h→controlled when call $n \rightarrow = 1 \rightarrow$ without caller identification	1234OUTCONF1=00003110 output is in 3 seconds monostable mode, it can be controlled by call and alarm and number identification is a must during a call
Forwarding inbound SMSs	REDIR			=	phone number serial from 1 to 8	1234REDIR=2
Setting ringing time	RINGTIME			=	from 001 to 255 (in seconds)	1234RINGTIME=030 rings for 30 seconds

Description	SMS command		x value		value after = sign	Example
Life sign sending	LIFETEST			=	cccssttttttt ccc \rightarrow cycle time, how often to send message (ex.:030 days) ss \rightarrow on the given day at what time (ex.: at 12 o'clock) tttttttt \rightarrow which telephone number to choose from the 8 ex.: 00100000 \rightarrow 3 rd phone number, 01010000 \rightarrow 2 nd and 4 th etc.)	1234LIFETEST=0071100100100 -in 7 days -at 11 a.m. -sending to 3 rd and 6 th telephone number
Setting up notification sending	SEND	x	1:1 st input 2.: 2 nd input 10.: power source monitor 12.: life sign	=	ssssssssvvvvvvv ssssssss → selecting phone numbers for SMS notification (0 or 1) vvvvvvv→selecting phone numbers for call (0 or 1)	1234SEND2=0010000011110000
Set/Modify the text of the SMS message(s)	SMSTEXT	x	1.: 1 st input 2.: 2 nd input 10.: power source monitor 12. :life sign 16.: reverting text	=	SMS text ending with *. Text must not contain accented character!	1234SMSTEXT1=alarm text*
Requesting module status information	INFO		C	Com	mand	1234INFO
no SMS after SMS programming	NOSMS		C	Com	mand	1234command1 command 2 NOSMS
output control	OUT	1	output numbers	=	ON→switch on OFF→switch off RUN→controlling according to settings sssss→ controls the output for a limited time (in seconds)	1234OUT1=ON Output 1 switches on 1234OUT1=OFF Output1 switches off 1234OUT1=RUN Controlling output 1 1234OUT1=00003 Output 1 switches on for 3 seconds
Restarting module	RESTART		C	com	mand	1234RESTART

SMS command examples:

1st message: input setup and selecting 3rd telephone number for notification. Sending SMS and voice message to the 3rd number.

5384TEL3=+4455512345 CLOCK=1401200922 INPUT2=4NO00100000 SEND2=001000000100000

SMS text is the following:

5348 → SMS security code, every new SMS can be started with this code (to change it use the CODE command. Default code: 1234)

TEL3= \rightarrow changing 3rd telephone number for notification. Give the number in international format.

CLOCK= change the date to the following: 2014.01.20 09:22

INPUT2= \rightarrow setting 2nd input to the following: delayed normal open input that sends siren alarm when there is an event. **SEND2**= \rightarrow second input sends SMS and voice message to the 3rd telephone number

2nd message:

- to modify the SMS text of the second input
- output and life sign message setup and
- saving an output controlling number for controlling
- finally modify the SMS security code

5384=SMSTEXT2=second input alarm* OUTCONF1=00003010 ADD=+4455512345 LIFETEST=007123000100000 CODE=2345

 $\textbf{SMSTEXT2} \texttt{=} \rightarrow \texttt{modify SMS text of second input. No accented characters!}$

 $\textbf{OUTCONF1}{=}{\rightarrow}$ output setup: monostable for 3 seconds with caller identification

ADD=→Adding telephone number to caller identification

LIFETEST=→sending life sign weekly at 12:30 to the 3rd telephone number

GSM gate control compact view

Similar to the entryphone compact view GSM gate control settings have their separate interface. The new interface contains every significant function for establishing a GSM based gate control system.

To activate the interface on the Connection window the Gate control compact view checkbox has to be marked

The new interface contains:

- output (gates) configuration: monostable (timed) or bistable (two stated) controlling
- controlling with caller identification, assigning phone numbers to gates and direct DTMF control
- SMS and PC security code
- firmware update
- switch off PIN code request of the SIM card
- event log, GSM signal strength and showing actual GSM module status
- wiring diagrams

For GSM gate control programming you have to complete only 4 (+1) steps: **Settings of Gate(s)**First step: set up the outputs.

First step: set up the outputs. You can freely change to the set of th

- You can freely change the output settings
- Controlling can be monostable (one stated) or bistable (two stated)
 - At monostable operation controlling time period can be even 65,000 seconds
 - Controlling can be made with caller number identification or without identification from unlimited telephone numbers
 - By using the Test button you can try the current settings. To use the 2nd, 3rd and 4th output an output expander (EXP Relay or EXP Relay3) is needed

Second step: save the controlling phone numbers

- You can store up to 1,000 phone numbers in the module memory
- phone number must comply with the international format (+ followed by country code)
- By selecting the controlling phone number you can choose which output should be controlled with that number

	<u>^</u>
+44123456789	
	Control the 1st gate
	Control the 2nd gate
	Control the 3rd gate
	Control the 4th gate
	Direct DTMF
Q	
	Read numbers from memory
🍰 Open form file	
	Write numbers

To control the module you just have to ring it. If you switch on direct DTMF control module will accept your call and you can control the outputs with the buttons of your cell phone

SMS security code:	
PC security code	

Third step: mind the security of your device

Change the SMS security code and (optionally) set your PC programming code. Default SMS security code is 1234.

Fourth step (optional): other settings

Other settings						
Phone number for notification (Power fault, Life signal, SMS forward and restor						
Power supply fault notification	🗆 Life signal, system OK	7 🕏 Day(s)				
Treshold voltage 11V -	SMS text:	12 🔿 At o clock				
SMS text:	Life signal, system OK	□ 🚖 First, after day(s)				
Return of power supply notification	□ SMS redirection:	🕑 Quit				

- By clicking the Other settings button you can set GSM module related notification possibilities
- notification of power failure and its restoration can be sent
- you can set life sign sending so the device will send SMS of its seamless operation
- messages arriving to the device can be even forwarded to your phone

The final 5th step is to send settings to the GSM device

🍰 Open form file	💾 Save to file	🖡 Read	1 Send	🆒 Restart	🕲 Quit
Page 20					