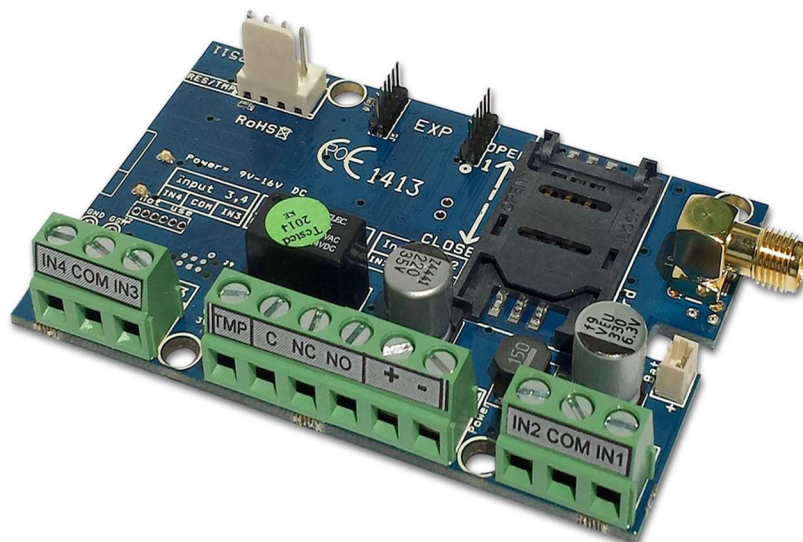




ProCon 4G Cloud

PROFESSIONAL 2G/3G/4G TRANSMITTER



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Device description and function

The ProCon 4G Cloud device can be used for remote controlling (ex.: gate opener), as an accessory to alarm centers and also as a standalone alarm center. The module has 4 contact driven inputs and one implemented relay output (relay type: NO/ NC). The module can be expanded with further outputs and functions.

It can send notification to 8 phone numbers in SMS and/or voice message. The notification sending can be triggered by a signal arriving to any of the 4 inputs, by power failure, by sabotage or by arming/disarming of the GSM module. The notifications can be accompanied by an additional voice message that will be played when calling is answered. These recordings can be 8 seconds utmost. The voice message can be also a shared identifying message with a maximum length of 15 seconds.

Output control can be made from unlimited phone numbers with a free call. When controlling with caller identification numbers can be stored in the memory of the module (1,000 in this case), or on the SIM card inserted. With caller identification unauthorized controlling of the device connected to the output is not possible.

Output can be controlled also with SMS command that might even contain differing order from stored settings (ex. output set to bistable can be controlled for 10 seconds). You can find more information on this command on page 20.

The module can store up to 16,000 events in which appear states of the inputs and outputs, power supply resets, GSM network and module state related information, incoming and outgoing calls and SMSs.

The tamper input on the module can be used as a sabotage indicator with setting possibilities alike to inputs. Shortening it before powering on then cut short in 3 seconds functions as a "reset" that can revert the module back to its original factory state.

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 network possibilities still available. It can be set that by controlling the output even a siren can be managed. This possibility is especially useful if we would like to fob the person who committed the sabotage.

As a standalone alarm center 4 zones can be distinguished and they can have Contact IDs or zone codes. The types of the inputs can be altered based on that (ex. 24/7, delayed etc.). By using expansion panel (EXP Alarm) an LED status feedback is available of the armed/disarmed module status and also the control of a peripheral buzzer in case of arming disarming and alarm event.

Besides continuous voltage monitoring the module observes also the GSM strength. These data can be readout and these can be charted even by hourly divisions by the programming and surveillance software.

By using expansion panels further outputs (EXP Relay, EXP Relay3), or expansion panel for standalone GSM alarm center (EXP Alarm) can be connected.

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



Figure 1: Device operation

Module buildup

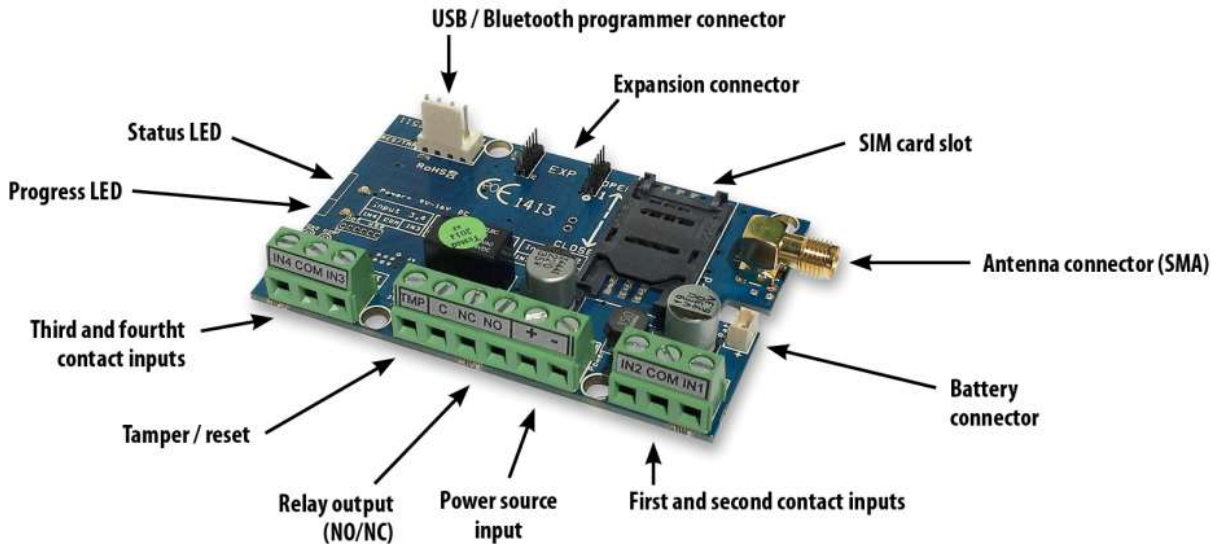


Figure 2: the buildup of the module

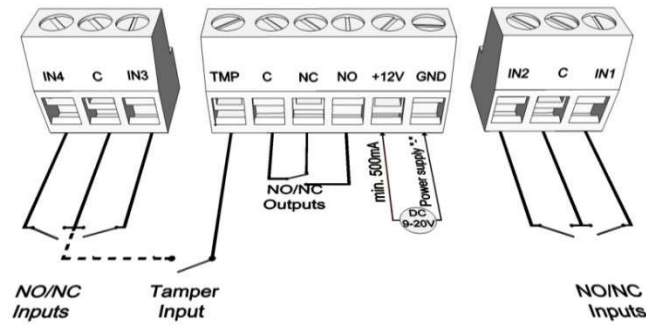


Figure 3: wiring diagram series terminal

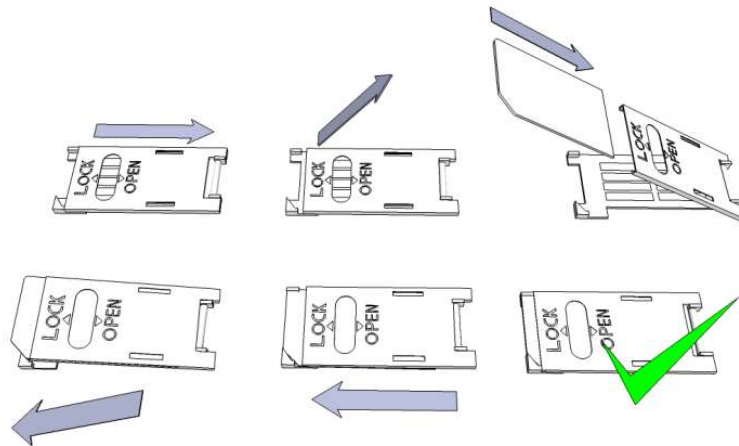


Figure 4: Inserting the SIM card

Installation guide

Technical parameters

- Power voltage: 9-20 VDC
- Standby power drain: 30 mA
- Maximum power drain: 700 mA
- Relay output load: max. 20V / 500 mA
- GSM module type: SIM800
- GSM frequencies: TDD-LTE B38/B40/B41, FDD-LTE B1/B3/B5/B7/B8/B20, WCDMA/HSDPA/HSPA+ B1/B5/B8, GSM/GPRS/EDGE 900/1800 MHz
- SIM card usage: brand free GSM module
- GSM antenna type: SMA connector (comes with package)
- Size: 78 x 51 x 20 mm, packed: 132 x 128 x 32 mm
- Operation temperature: -20°C - +50°C Power source: 9-20 VDC

Installation steps

1. 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 to installation. Do not install the device to places where strong electromagnetic waves might occur, ex. next to electric motors or alarm transformers.
2. Do not install in watery places or to places with great humidity.
3. Connect the antenna that can be secured with an 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 various metal covers as those might significantly ruin the signal strength**
4. **You should opt out the PIN number request, voicemail and call notification of the SIM card.** Sometimes new SIM cards must be activated (usually one 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. can be used only for calls).
5. Number identification of caller and at call initiations has to be checked. This function at certain service providers. Must be enabled formerly.
6. Insert the SIM card in the SIM card slot of the module.
7. Connectors have to be connected according to the wiring diagram. If you are dealing with OC output (output of EXP Alarm expansion panel) mind the correct wiring of the relay protecting diode.
8. If you are working with OC relay be cautious especially of avoiding electric shock. A proper contact protection must be established. If you lack the appropriate experience ask for professional help
9. 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.
10. Now the device can be connected to the power supply.
11. If you have purchased also a battery connect it to the device. **Use only the appropriate battery for reserve powering the device!**
12. After connecting the voltage supply the red LED is lighted indicating the device establishing connection with the **GSM system (this can be 1 minute utmost)**
13. If red LED goes off and green LED flashes module is online and connected to network. The **flash number(s) indicates GSM signal strength**

LED signals

Signals give essential information of the module, of 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 value based on the chart below:

Flashes	Signal quality
1	Bad
2	
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 checks. During operation this reflects an event (SMS or voice call).
- If the red and green LED are lighted simultaneously it tries to communicate an error that can be identified with the chart below:

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

- Alternating flashes of red and green LEDs means the "reset" function of the tamper input. This way the GSM module can be reverted back to its original factory settings.
- To switch-off the **modem mode**, open the **module status** window in the **Services menu**.

Connecting the module (PC)

Establishing connection using a USB adapter

1. Connect the USB adapter to the Program labeled slot of the module.
2. USB adapters can provide the sufficient voltage for programming the GSM module.
3. USB adapters can provide the sufficient voltage for programming the GSM module.
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 the installation with the **USB driver**.

Installing the USB driver manually in 10 steps

- ✓ get 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 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 chose 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 will be the programmer now, later the USB Serial port). If you cannot find it start the "Scan for hardware changes" process from the upper window menu.
- ✓ Device properties can be achieved 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→ Properties→Hardware tab → 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. Establish a connection to the GSM module.

Establishing connection using a Bluetooth adapter

1. Connect the Bluetooth adapter to the GSM module and provide power to it.
2. Switch on the Bluetooth connection possibility on your device (PC or Android mobile phone).
3. Search for programmer with the help of your Bluetooth enabled device.
4. After finding the adapter you can pair your PC/smart phone with the adapter using the code "1234".
5. **Search for the COM port number of the connection (usually under Properties → Hardware tab).**
6. Set the port number also in your programming software (PC) or choose the automatic port finding option.
7. Establish a connection to 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 → Properties → Compatibility)

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

If you have a connection established between the adapter and your PC or mobile 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 config button (after a confirmation) it will revert back the module to factory settings***
- **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.
- The program runs automatically, no installation needed.
- Compatible with operating systems Windows XP, 7 and 8
- Make sure you always use the latest software!
- If newer software is out the module should be updated prior to the first configuration



Connecting process

- To program the module choose between USB or Bluetooth connection.
- Below the language selection in the scroll down list (COM 4 in the picture) 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 connects to the module and reads out its settings.
- By clicking the Start/Default config button the module will be set back to default factory settings 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 specific module properties selection and also module preprogramming

Program buildup

ProRead

Service File Manuals Setting Language Contact GSM Quit

12:56:00 Client:

Time sync RX

Parameters

Phone numbers

Caller ID

Inputs

Outputs

Voice

Other

Ext. power monitor

Life signal

Monitoring station

Arm/Disarm

Basic data

Client name:


Username:

GSM phone number:

Type of alarm center:

Type of GSM module: ProCon GSM 4G

Date of installation: 2022. 10. 19. 11:57:46



Read Send Restart Quit

COM9 ProCon GSM 4G Firmware: 9.4.7 Successful readout! ProRead verzió 2022.11.17

- 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
 - Descriptions: viewing 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 Clock Synchronization makes the module to **adjust its time** to the PC clock
- After the device established a connection with the mobile network it will automatically adjust the time with the mobile network (if this feature is available).
- 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

Modul állapot

ASC Global

Bemenet 1.: KI BE

Bemenet 2.: KI BE

Bemenet 3.: KI BE

Bemenet 4.: KI BE

Kimenet 1.: KI BE

Kimenet 2.: KI BE

Kimenet 3.: KI BE

Kimenet 4.: KI BE

Tamper: KI BE

Tápfeszültség: KI BE

Élesítés: KI BE

Térerő: 100%

Hibakód/CID:

GSM státusz:

You can reach the actual status through **Maintenance** → **Show module status** button.

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

- input statuses
- output statuses
- Tamper sabotage notification
- power supply failure notification
- armed/disarmed module status
- 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 the network, roaming, no connection, connection rejected)
- actual GSM signal strength (refreshing in seconds)

Switching off PIN code request on SIM card

Please enter the PIN of SIM card

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 **Maintenance** → **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

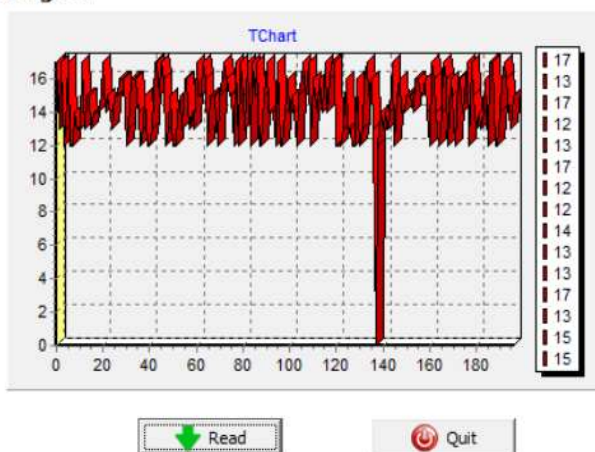
EVENT	DATE	GSM 0-31	GSM Network	Note / parameters
132	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
133	OUT1	2013.01.28. 17:05:38	0	Not connected
134	OUT1	2013.01.28. 17:05:34	0	Not connected
135	OUT1	2013.01.28. 17:05:28	0	Not connected
136	OUT1	2013.01.28. 17:05:24	0	Not connected
137	GSM signal lost	2013.01.28. 17:05:12	18	Connected
138	Ext. power monitor	2013.01.28. 17:04:45	18	Connected
139	Input 1.	2013.01.28. 17:03:55	16	Connected
140	OUT call (successful)	2013.01.28. 17:03:43	13	Connected
141	Input 1.	2013.01.28. 17:03:02	16	Connected
142	GSM logged	2013.01.28. 16:59:37	14	Connected
144	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
145	Ext. power monitor	2011.01.01. 00:00:13	0	Not connected
146	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
147	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
148	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
149	Tamper	2011.01.01. 00:02:44	0	Not connected
150	Tamper	2011.01.01. 00:02:37	0	Not connected
151	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
152	GSM logged	2013.01.14. 12:15:28	23	Connected
153	Ext. power monitor	2011.01.01. 00:00:13	0	Not connected
154	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
155	Microcontroller START/REI	2011.01.01. 00:00:08	0	Not connected
156	Ext. power monitor	2013.01.14. 11:47:51	25	Connected
157	SMS Send OK.	2013.01.14. 11:37:02	22	Connected
158	Close (GSM)	2013.01.14. 11:36:53	22	Connected
159	SMS Send OK.	2013.01.14. 11:36:16	22	Connected
160	Open (GSM)	2013.01.14. 11:36:05	22	Connected
161	Incoming calls rejected	2013.01.14. 11:35:22	22	Connected
162	Incoming calls rejected	2013.01.14. 11:34:51	22	Connected
163	Incoming calls rejected	2013.01.14. 11:34:21	22	Connected
164	Input 4.	2013.01.14. 11:33:56	22	Connected
165	GSM logged	2013.01.14. 11:22:21	22	Connected

The event log can be viewed by clicking **Maintenance** → **Read Event Log** 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 short event information.
- In the Date column notification dates are stored. IMPORTANT! Date will be accurate if the clock of the module is synchronized with a PC or with GSM system. The latter is automatically done by the module when connected to the network of the operator.
- The GSM 0-31 indicates the signal strength at the time of creation. 31 is the highest, 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 event log 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" (ex. Excel) chart so later it can easily be sent and stored
Readout of GSM signal strength

GSM signal



The chart of GSM signal strength is available by the **Maintenance** → **Show GSM signal strength** button

- You can have the values by pressing the **Readout** button
- Measured readings can be displayed by clicking the "Reading" button.
- Signal strength fluctuations are divided by hours. Passed time should be interpreted according to this.
- Vertical scale is calibrated from 0 to 31. 31 mean the best signal strength.
- Size of the chart can be freely altered by left click

Fill out basic data

Basic data

Client name:	<input type="text"/>
Username:	<input type="text"/>
GSM phone number:	<input type="text"/>
Type of alarm center:	<input type="text"/>
Type of GSM module:	ProCon GSM
Date of installation:	2021.05.21. 13:07:27

Important data of the installed GSM module can be set. Besides the client name and commissioning address the phone number of the SIM card inserted in the module 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 maintenance.

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 sent
- Numbers given in this section must be in international format to ensure safe operation. (Ex.:+36301234567 or 0036301234567)
- For notification maximum 8 phone numbers can be set.
- You can select 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. (Example: 1234TEL1=+36301234567, 1234TEL2=+36304564323) See page 20 for SMS commands

Phone number settings

Add phone numbers for notification:

Number 1.:	<input type="text"/>
Number 2.:	<input type="text"/>
Number 3.:	<input type="text"/>
Number 4.:	<input type="text"/>
Number 5.:	<input type="text"/>
Number 6.:	<input type="text"/>
Number 7.:	<input type="text"/>
Number 8.:	<input type="text"/>

Saving controlling phone numbers

Phone number identification

Own memory | SIM card number | Time Zona

	Number
1	+36301111222
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

Control 1st output

Control 2nd output

Control 3rd output

Control 4th output

Arm/Disarm

Do not request for security code in voice

Direct DTMF control

IN4 Disabled

IN3 Enabled

+36301111222

Open form file

Save to file

Read numbers from memory

Write numbers to memory

Search

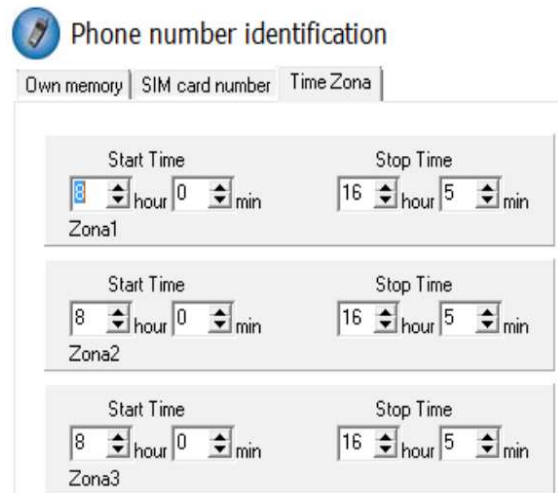
- At the Controlling phone numbers section you can set telephone numbers that can control the outputs.
- Phone numbers can be stored in the memory of the module (maximum 1,000 pcs). Moreover, additional phone numbers can be stored in the SIM card. The phone numbers on the SIM card

memory can be read out only. New phone numbers can be saved to the SIM card if we insert the SIM to a mobile phone and we save the additional numbers.

- By using inner memory the module will be independent from 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, and then the send button.
- Stored numbers must be in international format. Due to number length using "+" is suggested (ex.:+36301234567).
- Storing, editing and opening of numbers are also possible (from .csv file).
- Controlling numbers can be associated with specific outputs.
- The list can be modified also by SMS command with ADD=phone number (addition) and DEL=phone number (removal) commands
- (Example: 1234ADD=+36301234567, 1234DEL=+36301234567)
- You can find additional information on SMS commands on page 20

Timezona settings

- At the Timezone tab, we can set in which time interval the control of the phone numbers is enabled.
- The timezone function works only with phone numbers in the internal memory.
- Three different time zones can be set with 5 minutes accuracy.
- The desired time interval can be set from a drop-down list next to the phone number list.
- By using IN4 Disabled, we can disable the control permission of the phone numbers which are enabled according to the actual timezone.
- By using IN3 Enable, we can enable the control permission of the phone numbers which are disabled according to the actual timezone. For using the function 9.0.4 or higher software version is necessary.



Input configurations

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

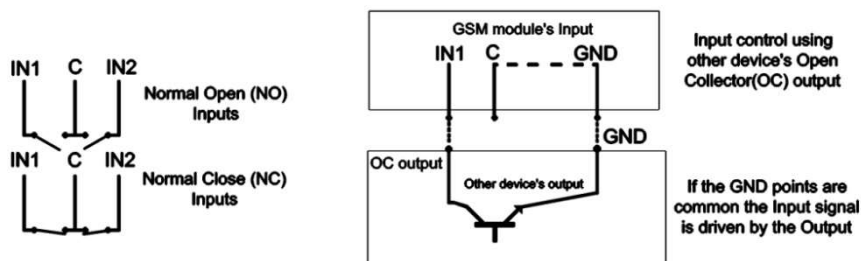


Figure 5. Normally Open (NO) and Normally Close (NC) wiring

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 inputs 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 later)
 - 03/Center input: this input will send alert only if the module is activated.
 - 04/delayed center input: in activated state this input starts a countdown (can be set on the "Other" tab) while you have the chance to deactivate it.
 - 05/Arming/disarming: input for arming or disarming the module. This can be controlled only with continuous contact (ex key switch). Normally closed state is suggested so wire cutting will trigger an 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. If also the voice message option is selected its length will be 5 seconds.
- At voice message transmission prerecorded or custom sound can be chosen to send with a voice call (Sounds tab)
- **Monitoring station** 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.
- 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 eeeeeeee: 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
- The dtmf acknowledging (by hash-mark, #) is not available at ProCon GSM.

Setting the duration between voice calls

If the "DTMF acknowledgment on call" function was set in the input settings, in this case, according to the number of call repetitions specified, the module will call the set phone number again until the connection is established and the call is acknowledged with the # key. Thanks to the new function, we can set the waiting time between calls in seconds. In the case of a circular call, you can set how long to wait before dialing the next circular call after dialing the specified numbers in case of a notification after the input signal.

The advantage of this function is that if the person to be notified does not hear the incoming voice call, he will not see 10 missed calls on his phone when he picks it up, but there is a good chance that he will detect the incoming voice call thanks to the pauses.

Voice message settings

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

Write ALL **Read ALL**

Playing the identification message before the event message

Internal Upload [Play] [Stop] [Record]

Input 1.	Internal	Upload	[Play] [Stop] [Record]
Input 2.	Internal	Upload	[Play] [Stop] [Record]
Input 3.	Internal	Upload	[Play] [Stop] [Record]
Input 4.	Internal	Upload	[Play] [Stop] [Record]
Power.	Internal	Upload	[Play] [Stop] [Record]
Tamper:	Internal	Upload	[Play] [Stop] [Record]

Voice format: 8Khz, 8bit, mono, PCM

Help
By clicking on the box you can select the voice message you wish to send in case of alarm received at the given input. It is possible to send individually set messages, which have to be recorded in 8 kHz, 8 bit, mono, PCM, WAV format. The length of this message is maximum 8 seconds. The identifier determines the location of the alarm, which will be played at the beginning of the voice call. (This must be authorized separately).

- 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 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

These voice messages are stored in the module's internal memory and played in the form of voice messages after the call.

Thanks to the development of GSM networks, the need to switch from 2G or 3G to a 4G product appeared among several customers. Until now, we could easily save the settings to a PC and upload them to the new module to continue using them. From now on, we can easily save previously uploaded voice messages to a data file and upload them to another module. Another advantage of this function is that if you want to use the same sounds for several modules, copying is easy, even if modules are not installed at the same time. If the customer would like to expand his system, he can carry on the previously used voice messages and only the missing new ones need to be recorded and uploaded.

With the "**Write ALL**" and "**Read ALL**" buttons, we can save these recordings and copy them back, or we can just save them to our computer in case they are lost.

Settings of inputs

Input 1. Input 2. Input 3. Input 4. Tamper **Even More settings**

Entry time: 30 SMS text for Input restore:
Exit time: 60 Restore:

Ring Time [sec]: 30

Max number of redials: 50

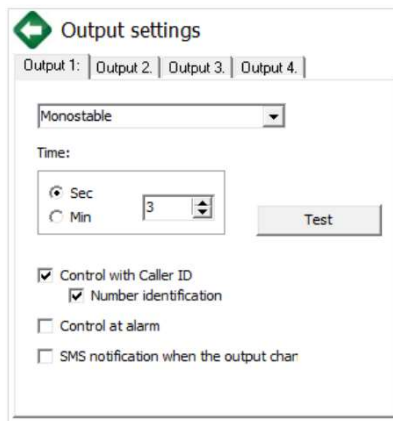
Talking time: 90

Time between calls: 255

Time between round calls: 255

Circular calling

Adjusting outputs



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

- Regarding monostable operation switch time can be set in seconds or minutes. This can be max 65,000 seconds.
- 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 unidentified or identified phone number controlling. By assigning the SMS notification when the output changes field, we can send SMS message about about the first input change.
- 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 controlling phone number not in the list will be denied. This greatly improves module safety regarding unauthorized controlling.p. 21



EXP RELAY

- EXP Relay provides additional 1, EXP Relay3 provides 3 additional outputs for the GSM module. Thus by using EXP Relay 3 the module can have 4 outputs.
- Only one expansion panel can be connected simultaneously. Expansion panels connect to the Panel labeled slot of the modules.



EXP RELAY3

- Both expansions contain low-voltage relayed output switcher.
- EXP Relay has NO/NC relay, EXP Relay3 has jumper adjustable output for NO or NC version
- 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.

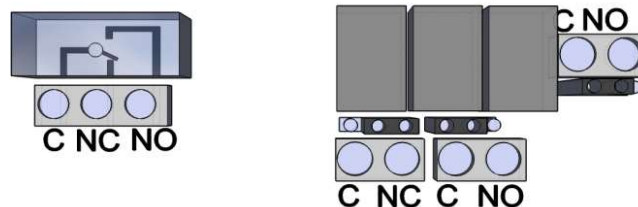
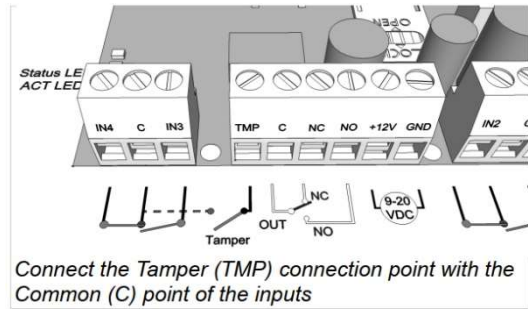


Figure 6: Exp Relay and Exp Relay 3

Tamper settings

The GSM module facilitates the connection of a tamper protection. Essential of this protection is that module will trigger an alarm if GSM case is removed

- Its connector is next to the first output shared connector of the main panel. Connector usage is similar to input: only suitable for monitoring short or open circuit.



- Connector must be connected according to the wiring diagram. You can use any shared input terminal. DONOT USE SHARED OUTPUT TERMINAL (C).
- Tamper connector settings do not differ from any other input settings. On demand connector can be used as a 5th input.
- If you are using tamper for monitoring case removal input type should be set as closed by default

Power supply monitoring setup

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

- On the Power monitor tab the trigger voltage level can be set. Below this the module sends an alert.
- 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 there is no main power supply.
- The remaining function settings equals with the input settings

Life signal sending setup

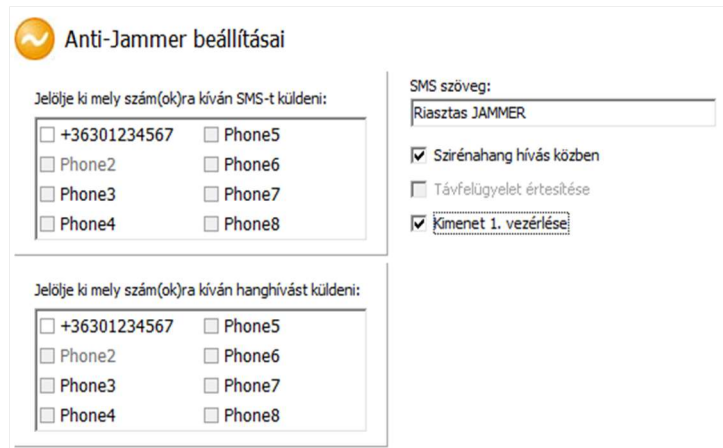
- By life sign sending the user can be sure about the flawless operation of the system.
- The life sign sending periods and also exact hour can be set for notifications.
- To use this feature Send life sign check has to be selected!
- It is also important the day of the first signal can be scheduled not to arrive on the setup day. The life sign activation day can be set.

- You can modify life sign sending with the following SMS command: 1234LIFETEST=cccsstttttt
- ccc → sending cycles/days (ex.: 007 days)
- ss → hour of sending on a day
- tttttt → which telephone number will be notified (ex.: 00100000 → it will send the message to the 3rd phone number)
- You can find more information on SMS commands on page 20

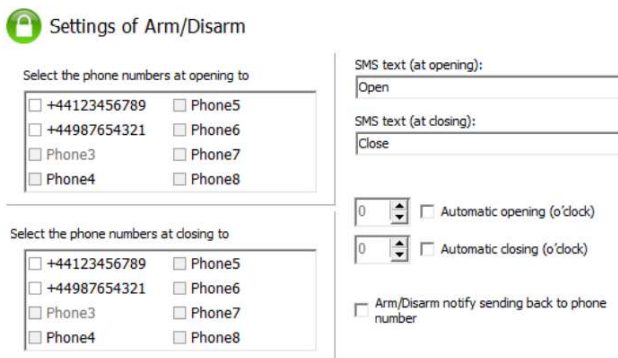
Anti Jammer System (AJS) settings

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

- You can set which output you would like to control instantly when there is an Anti Jammer System event. In this situation it will control a peripheral device connected to its output (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



At opening/closing i.e. the state of the module changes between armed/disarmed a notification SMS can be sent. You can set the SMS message that can be maximum 32 characters long.

- An automatic activation/deactivation time for module can be set. This needs activation and deactivation time.
- Besides to the notified numbers a module status notification SMS can also be sent to the controlling number.

GSM alarm center expansion panel

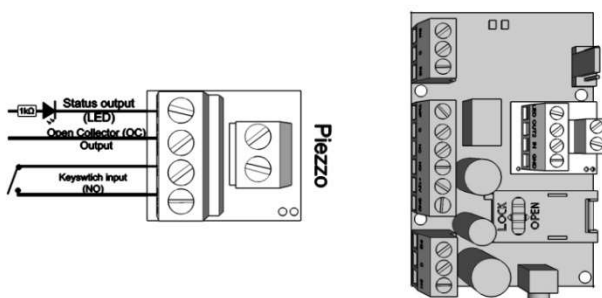


Figure 7. Alarm center expansion card wiring diagram

- By using the expansion panel GSM module can be converted to standalone alarm center.
- The expansion panel connects to the slot next to the programmer port according to the position on figure 7.
- Simultaneously only one expansion panel can be attached to the module.
- The alarm center expansion module provides the following new features for the module:

- status output; if you connect an LED to it (using a resistor to control the flowing power) you can have light feedback of the armed module status. When you arm the module the LED starts to flash.
- open collector output that serves as a second output. When it is controlled it will close with the GND of the expansion alarm.
- Extra input through which module can be armed/disarmed by a continuous contact or an impulse (we suggest connecting key switch here)
- Piezzo connecting point; facilitating sound for differentiating exit time (arming state) and alarm.

Remote surveillance settings (voice call)

- Remote surveillance notification can be used side by side with the SMS and voice call notifications. This feature works at more than 50% of signal strength.
- Regarding the order first remote surveillance will be notified than remaining notifications will be processed.
- Two remote surveillance numbers can be set. If there is a connection failure with the first number it will call the second phone number.
- Client code is decided by the remote surveillance. You can use only your own code.
- The communication with the remote surveillance can be improved by changing the signal level of the module transceiver.
- First example: if remote surveillance cannot interpret the code received sender level has to be adjusted
- Second example: if the GSM module during the handshake does not receives accurately reply from remote surveillance the Receiver value has to be modified
- Change the default settings only in case when this is required by the available signal strength or by remote surveillance distinctives

Settings of monitoring station
Own generated codes (CID) | Voice call | GPRS

Number 1.:
Number 2.:
Customer ID:

TX Signal strength:
RX Signal strength:

Using your own signal (Contact ID) codes

- The module can forward also self generated signals (ex. signals to inputs, power supply failure) to remote surveillance
- Contact ID and Zone codes can be modified.
- Notification can be revised under the Maintenance -> Module state display tab. Here in the error code window sending actual Contact ID is displayed.
- If messages sent are not interpretable signal strength and module antenna position must be checked.
- *The connected antenna should be away from the module and any other electric device or cable!*

Settings of monitoring station
Own generated codes (CID) | Voice call | GPRS

	CID	ZONE
Input 1.:	<input type="text" value="130"/>	<input type="text" value="001"/>
Input 2.:	<input type="text" value="130"/>	<input type="text" value="002"/>
Input 3.:	<input type="text" value="130"/>	<input type="text" value="003"/>
Input 4.:	<input type="text" value="130"/>	<input type="text" value="004"/>
Tamper:	<input type="text" value="137"/>	<input type="text" value="001"/>
Ext. power monitor:	<input type="text" value="302"/>	<input type="text" value="001"/>
Life signal:	<input type="text" value="602"/>	<input type="checkbox"/> Life signal
Arm/Disarm:	<input type="text" value="401"/>	<input type="checkbox"/> Arm/Disarm

Life signal period [min.]:

GPRS settings

On this page the carrying protocol can be set for data transmission. We suggest TCP usage only in justified situations, the UDP communication facilitates much quicker communication.

- In the latter case no need for user and password input.
- Compatible communication protocols are ENIGMA and SIA IP.
- At server address IP address and Domain name (this needs DNS server configuration) is also accepted
- Backup servers can also be used to ensure communication.
- Frequency of the test message can be set. A special Contact ID code can also be assigned to it.
- At GPRS client code module uses the client code saved on the Voice call tab when forwards via GPRS/IP.

Settings of monitoring station
Own generated codes (CID) | Voice call | GPRS

Protocol: |
APN:
Username:
Password:

DNS1:
DNS2:
Key:

Server address: | PORT:

Test period in min:
Contact ID code:

Sending the GSM module internal alarm
 Contact ID logging to the event list

- Own tokens can be set (inputs, power supply monitor, tampering, life signs). Codes associated to this can be set on the Remote Surveillance tab.
- Logging Contact ID sent codes are saved in the module event log.

Other settings 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:

- Extension card selection (EXP Relay or EXP Alarm)
- Arming with impulse; by selecting this option an impulse sent to the input of EXP Alarm will cause arming/disarming.
- 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)

- When in closed closure (using tamper microswitch) module LEDs can be switched off.
- Saving output state to inner memory, so at powering on output state will be set according to what was saved.
- Activation with caller identification can be set here if we 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:

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

On SMS tab you can find the followings:

- 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 messages. Programming with Android based mobile phone

Factory reset

Shortening the terminal before powering on than releasing in 3 seconds will revert the GSM module back to its factory settings. This progress is indicated by the alternate flashes of the ACT and STATUS LEDs

ProCon 4G Cloud in Cloud

The ProCon 4G Cloud module is now available in the cloud thanks to our latest developments. You can control the devices output in Cloud Manager Application with an control button as well as at www.asclodmanager.com, you just need to make registration.

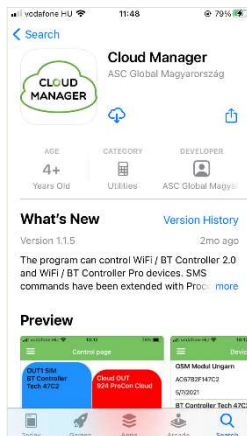


Device register for cloud connection

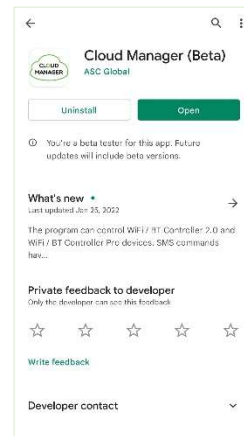
To be able to connect to the cloud, we need to register the ProCon 4G Cloud module. Registration can be created in Cloud Manager Application or on the web at www.asclodmanager.com.

Device register with CLOUD MANAGER application

Find the Cloud Manager app in the App Store or Google Play Store and download it to your iOS (Figure 1) or Android (Figure 2) device.



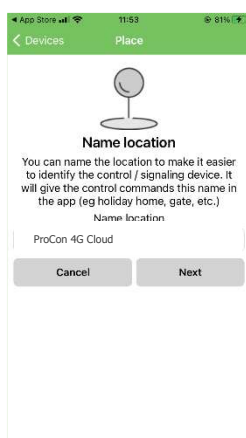
1.



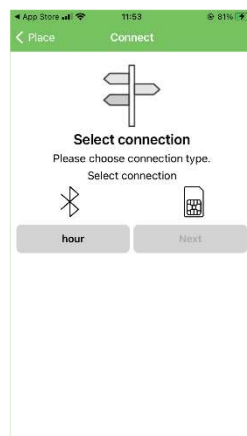
2.

Add device

Press "+" to add a device, then name the location.



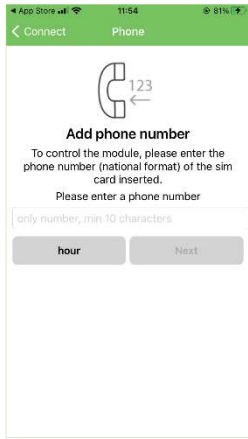
You can give a unique name to the location of the device to make it easier to identify the control device. (eg holiday home, gate)



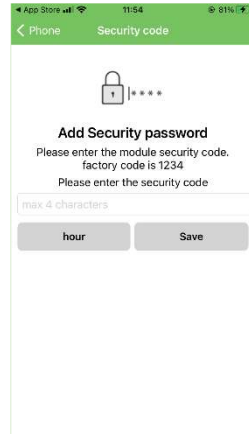
Choose a connection channel to connect to the device.

Select SIM for ProCon 4G Cloud!



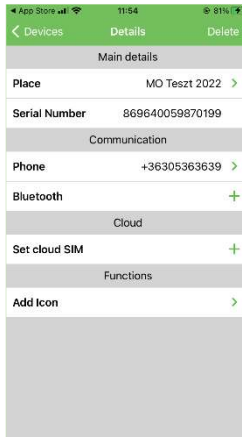


Enter the phone number of the inserted SIM card in international format (eg +36301234567).



Enter the security code of the GSM module.

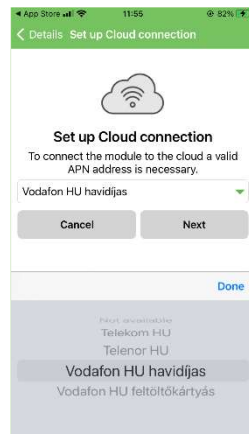
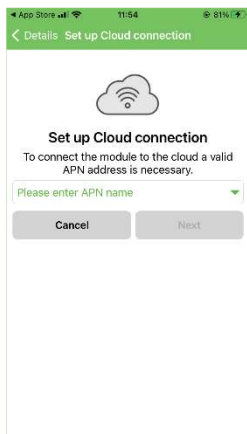
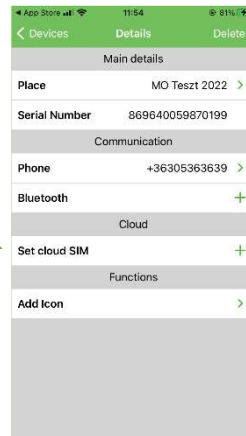
Factory code: 1234



Press the save button and the device will appear in the list.

Cloud settings

Choose the „**Set cloud SIM**” menus.



Choose one of APN options from the list. The inserted SIM card's APN is available by the mobile network provider.

We can select the appropriate setting according to our subscription or tariff plan.

Example (at mobile network providers in Hungary):

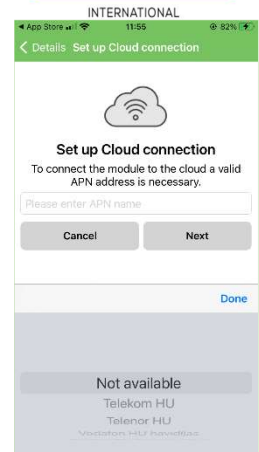
- **Telekom HU** (internet)
- **Telenor HU** (online)
- **Vodafone HU monthly fee** (internet.vodafone.net)
- **Vodafone HU top-up card** (vitamax.snet.vodafone.net)

APN: Access Point Name

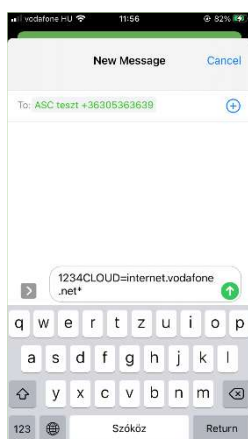
These addresses (APN's) can be used to connect to the Internet with SIM cards purchased from different providers. These addresses usually vary from service provider to service provider, depending on the current service plan offered by your service provider (prepaid or postpaid).

If you connect to a service provider in another country with a home SIM card, the APN option offered by the current service provider will not appear in the list, so you can select a custom field for the setting in the application. **"Not available"**

If you use a domestic SIM card outside the domestic network, the current foreign APN service provider may charge a fee depending on our choice!

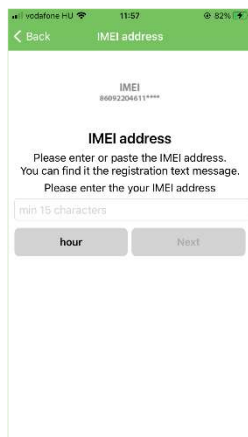
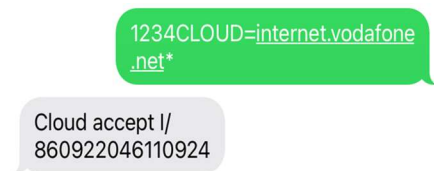


APN settings



The application creates the SMS command required for the cloudy connection of the module as an SMS message to the number we have specified in the application. Press the send button.

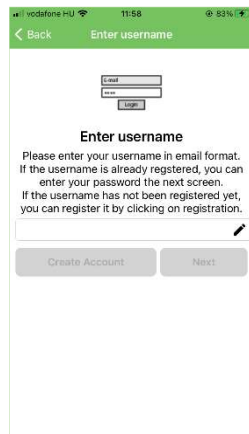
After sending an SMS command, we will receive our IMEI number in a confirmation SMS. (860922046110924)



1.

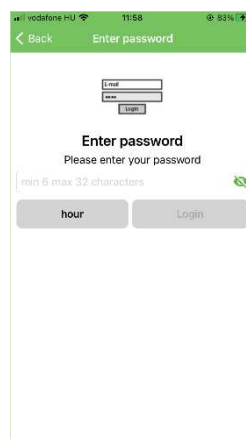
Copy and paste the entire message into the Cloud Manager application box.

The application reads the required IMEI number from the message. (1)



2.

Enter your user email address ... (2)



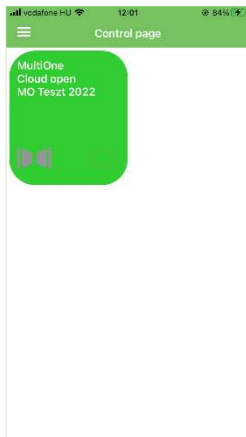
3.

... and the password. (3)

You will be able to access the module in the cloud as an "admin" authorized user with this email address.

After a successful save, you can log in to the www.ascloudmanager.hu website with your user account, where you will find your registered devices.

Create an Cloud control icon



After successful cloud registration, you can create a 'cloud' control icon in the Cloud Manager Application for remote access.

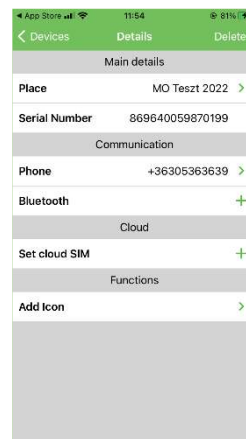
Make sure you're signed in with your email address in the **Devices** menu.

If there is no check mark,  log in to your email address and password.



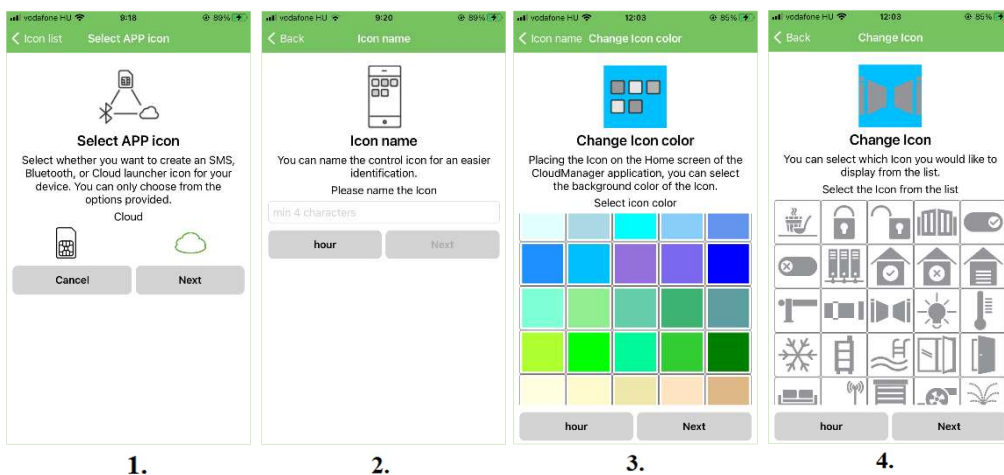
After a successful login, we can see our device or for multiple registered modules, all available devices are displayed in the list. You can see devices informations by clicking on the line of your device.

Choose the **„Add icon”** menus.



Use the **„+”** sign and select to create control button icon (Figure

1.)



Named the control icon (Figure 2.) and then specify the background color of the control icon. (Figure 3.)

Select an personal icon from the list. (Figure 4.)

Set the control type and timer.

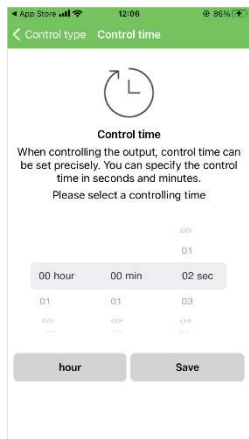
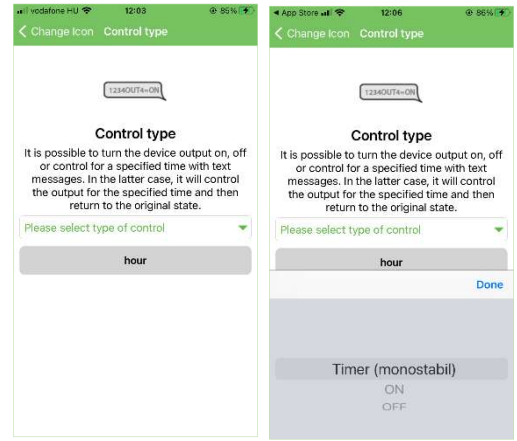
Control type can be:

Timing (Monostable)

Controls the output based on the time set in device.

Switch (Bistable)

When an output is activated, the output switches over and remains in that state until it is controlled again.



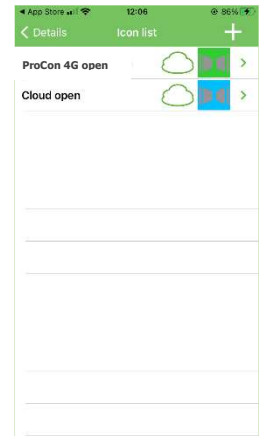
You can specify how long the control takes place in Monostable Control.

You can specify the control time by selecting hour / minute / second.

Maximum selectable control time:

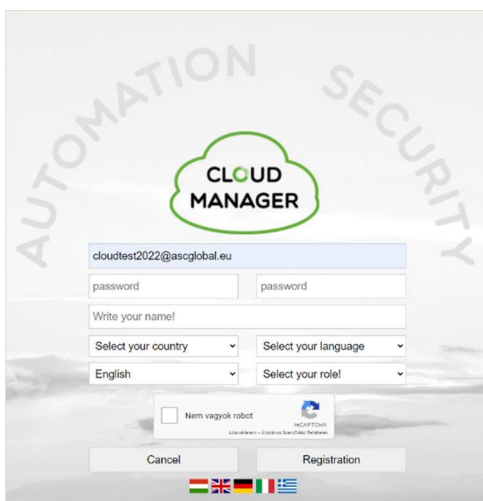
18 hours, 12 minutes and 15 seconds i.e. 65,535 seconds.

After setting, the control icon will appear in the icon list as well as on the Control Panel



You can activate the output of the ProCon 4G Cloud module with the created control icon.

Devices registration on ASCloud Manager website



Create a user account on www.ascloudmanager.com website.

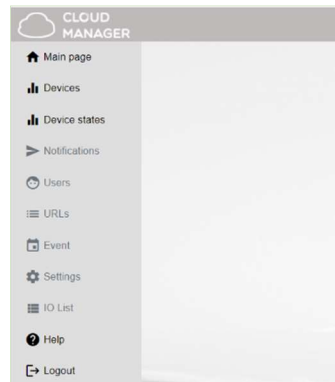
- Enter an email address to log in
- Enter the password that you want to use for the e-mail
- Confirm the password again

Select your country, native language from the list. Next, select the language in which you want to see the website when you log in.

Select user type:

- Installer
- End user
- Remote Monitoring Station

Use the registration button to enter the main page.

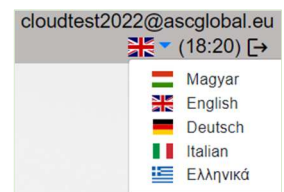


The page will automatically log out after 20 minutes of inactivity. You can see the current time in the upper right corner of the screen.



Select language

You can change the page language in the drop-down menu. The language of the page can be changed after logging in. The website languages currently available in 5 languages but constantly expanding.



Create your first cloud connection

To create your first cloud connection, follow these steps to register:

Insert a SIM card into the module and wait for the network connection.

Successful registration is indicated by the green LED with 3-5 consecutive flashes.

NOTE! Make sure that the inserted SIM card has an active GPRS connection and enough balance to send any SMS. Make sure the PIN code request is turned OFF.

Send an SMS as follows:

<PASS>CLOUD=<APN>*

PASS: Security code of the GSM module (default:1234)

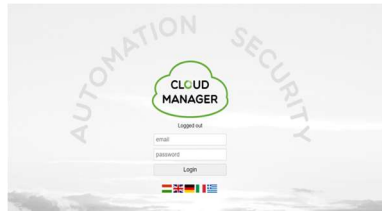
APN: SIM Network APN (e.g.: „internet“, „net“... etc.)

1234CLOUD=internet.vodafone.net*

Cloud accept I/
860922046110924

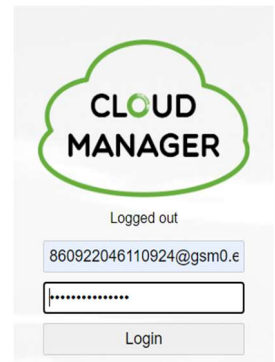
After successful registration, we will receive the IMEI number of the registered device in a reply SMS.

Open the www.ascloudmanager.com website and enter your IMEI number as follows:

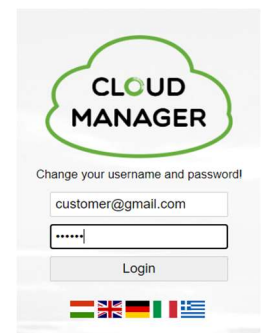
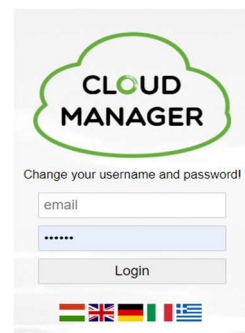


E-mail: <IMEI>@gsm0.eu e.g.: 860922046110924@gsm0.eu

Password: <IMEI> e.g.: 860922046110924

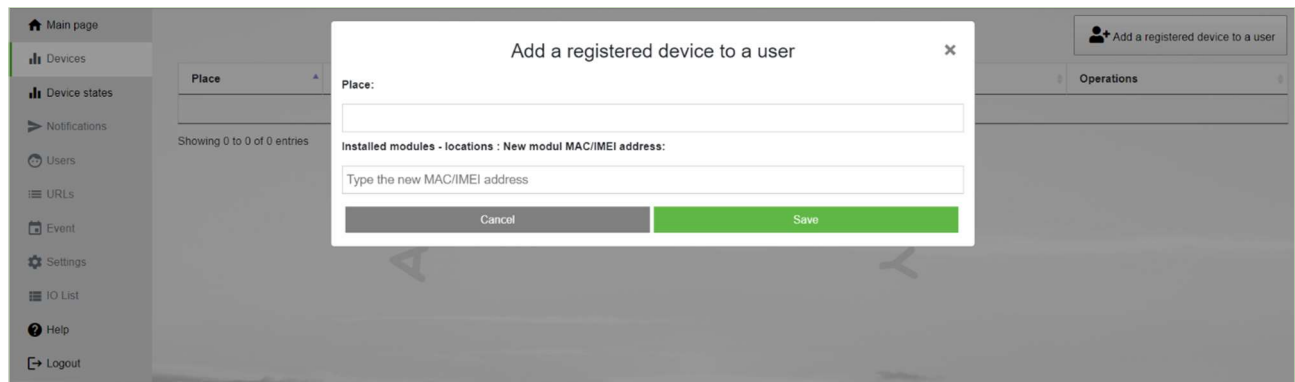


Enter your login **email address** and **password** to register the device.



After successful registration, our GSM module is available in ASCloud Manager.

Add registered device

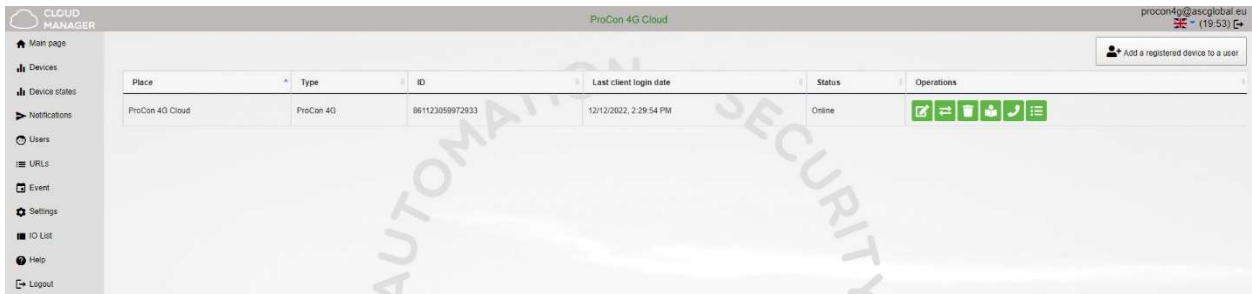


On this page, you can add a new device to your account to send a registration SMS, or add an already registered module to your list.

Location: Enter a name for the new module (street, building, other ID to easily find your device later)

Installation locations: If you have more than one module, the names of the devices used so far will appear here. This is important because when you type a new name, you will be warned if you want to create a module with the same name, but it can also help if you want to connect a new device next to another to create a similar name.

New module IMEI number: enter the IMEI number of your new device here.



Clicking the Save button will bring up your device in the „**Devices**” menu.

You can give your device a personal name for easier identification. You can make custom settings by clicking on the module row.



Device setting (rename): you can name the module for easier identification



Device replacement: we use this feature if we want to completely replace our device with a new module. In this case, the entire memory of the old device will be copied, practically everything will be 100% identical to the old one, only the identification IMEI number will change.

NOTE!

After cloning, the new device will replace the old device, so the old module will not be available !!!



Delete device: We can delete our device if we no longer need it. The device will only be available after re-registration.

Device status

Place	Type	ID	Status	Status date	Last client login date
ProCon 4G Cloud	ProCon 4G	861123059972933		12/12/2022, 2:46:18 PM	12/12/2022, 2:46:18 PM

You can view the current status of the outputs or inputs of your device.

Green indicates the cloud connection status of our registered device.

The device is ONLINE



Green means dormancy. Approaching your cursor displays the name you entered.

If the color changes to red, you will see an "Offline" message. The device is OFFLINE.

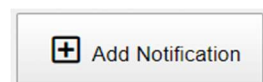
You can monitor output or input signal states on your device.

- Mobile network signal strength
- INPUT (IN- / IN +) at rest (no DC voltage at terminals)
- OUTPUT at rest (C / NC short circuit, C / NO open)
- INPUT signal change (DC voltage at IN- / IN + terminals)
- OUTPUT activated (C/NC open, C/NO short circuit)

Notifications

There are two types of notifications:

- **system notifications**, which usually contain important messages about the server, development, or any system
- **status notifications**, where we receive e-mail notifications about the controls and conditions we have selected to the e-mail address we have also chosen.



Notifications

The 'Add Notification' form contains the following fields:

- Local signal:** out1
- Type:** OFF->ON
- Notify email:** cloudtest2022.cloudtest2022@ascglobal.eu
- Subject/Title:** MO Test2 2022 out1 OFF->ON
- Message:** Dear Technical Support! You have received a message. Please: MO Test2 2022. Message: out1 OFF->ON. Notification e-mail address: cloudtest2022@ascglobal.eu

Buttons: Cancel, Save

Push the „**Add notification**” button

Local signal

You can select the output or input of the module depending on which one changes you want to be notified about.

Types you can specify the direction of the output change

OFF->ON Send a notification when turned ON

ON->OFF Send a notification when turned OFF

Notified e-mail address

Select the e-mail address to which you want to send the notification. You can also personalize the message and subject field.

NOTE!

Depending on the user and e-mail address with which the module is registered, you may not see an e-mail address or the e-mail address to which you want to be notified. In this case, select the desired e-mail address from the Users menu and add the one to be notified for e-mail setup. After saving, log out and log back in at www.ascloudmanager.com.

Continue setting the notification to the desired email address.

Add an managing users

After registration, the e-mail address provided during registration will be displayed in the device.

(admin email address)

User	Admin	Service	Reading	WiFi control	Inputs	Outputs	Operations
procon4g@ascglobal.eu					in1 in2 in3 in4	out1	

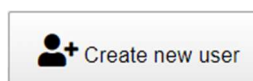
Showing 1 to 1 of 1 entries. Click a row to select it.

NOTES!

If you delete this email address from the list of users, we will not see the device the next time you log in!

If no users are saved to the device, the device will be automatically deleted from the database in a few days.

You can assign users to your device by entering a user email and password, you can make personal privileges to them.



The **number of users is unlimited**, so you can give access as you wish by entering an email address. Each user can control the output of the MultiOne GSM module with privileges e-mail address.

Create new user

To create a new user, you may want to enter a daily email address to be notified of the status change. You can enable or restrict notifications. We have the ability to specify the language used to log in, so all users can easily and conveniently manage the device.

Add new user ✕

User:

Password:

Password again:

Contact name:

Kapcsolat tartó email címe: +
 I do not request email notifications.

Residence (country):

Preferred language (native):

Webpage language:

Role:

General Outputs

Admin
 Service
 Reading
 WiFi control
 Status

Cancel Save

- User:** login email address to www.ascloudmanager.com website
- Password:** new user login password
- Password again:** password confirmation
- Contact name:** name for email address (fr identification, greeting)
- Email of contact person:** You can receive notifications at the user's notification email address. If you do not want to be notified, select "I do not want to be notified".
- Residence (country):** Select the country where you live
- Preferred language (native):** Select your native language
- Webpage language:** Select the language of the website. When opened, all functions can be read in this language. Our service is constantly expanding, currently available in 5 languages. The language of the page can be changed after logging in.
- Role:** Select you user status (Enduser, Installer)

Give additional users access. You can give users individual permissions.

Add more users

Add new user ✕

User:

Password:

General Outputs

Admin out1
 Service
 Reading
 WiFi control
 Status

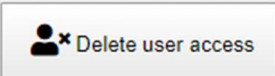
Cancel Save

- User:** new user email address
- Password:** new user login password
- Admin:** Administrator access
You have all permissions except to delete the user who created the permission.
- Service:** Reading permission, allows access to service data related to the operation of the module.
- Reading:** Reading permission
- WIFI control:** With this function, the user's authorization can be suspended. As soon as we turn off and save the setting, the user will have access to their account again.
- out1:** Assign user output to control.
After saving, the settings can be used immediately.

Modify user information

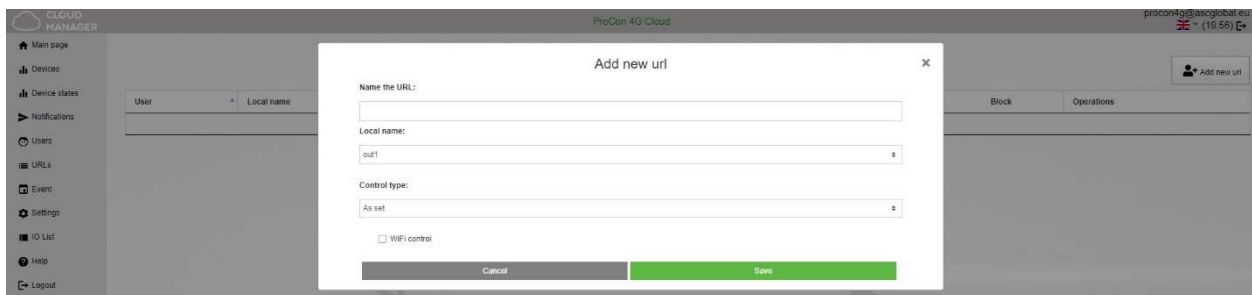


By clicking on the "Set user" button, all user data can be changed. You can change your own or other users' login passwords. If you no longer need access, you can delete it.



NOTE!

Just as we have created a user, we can delete it. Pay special attention to deleting the email address created as an admin from the users queue, no longer seeing the device the next time you log in, and if no users have been saved to the device, the device will be automatically deleted from the database.



Create URL control icon

In URL menu, you can use the "Add new URL" button to create a control icon for your desktop PC or laptop. Name the control icon that can be controlled from the PC. Here you can also specify whether to check the local WIFI availability for control. If the WIFI limit is enabled, their control icon will only be used within the scope of the local WIFI network. Turning this off will allow you to control the output from anywhere with an Internet connection. An excellent service for allocating rights.

Drag to the screen with the left mouse button and the URL will already operate the device connected to the output.

User	Local name	Link	Control time	WIFI control	Block	Operations
test924@ascglobal.eu		Door open PC button	0	<input type="checkbox"/>	<input type="checkbox"/>	

You can edit your existing URL connection. You can change your settings or disable them. If you no longer want to use it, simply delete it with the appropriate symbol.

Event list

In the event log, you can list the user activity used with the Internet connection.

Timestamp	User	Output	Event
12/12/2022, 3:00:58 PM	procon4g@ascglobal.eu	out1	Command sent / Command executed: 81.183.105.210
12/12/2022, 3:00:52 PM	procon4g@ascglobal.eu	out1	Command sent / Command executed: 81.183.105.210
12/12/2022, 2:28:08 PM		out1	Send command from phone / Command executed

Showing 1 to 3 of 3 entries

We can list when and which user controlled the output. You can save the event log to an Excel file.

Settings

You will receive information about your device in the settings menu.

Information

In this menu you will receive information about your device depending on your authorization.

Information	
Title:	ProCon 4G Cloud
MAC:	-
IMEI number:	861123059972933
Serial number:	-
Date of creation:	12/12/2022, 2:27:12 PM
Last client login date:	12/12/2022, 3:03:27 PM
Date of last issued command:	12/12/2022, 3:00:58 PM

Title: device name

MAC: Not used

IMEI: IMEI identifier of the device

Serial number: unique serial number of differentiated devices - this is not the case with this type

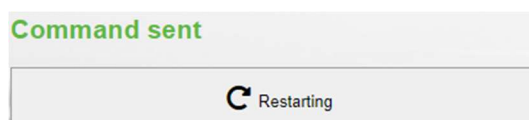
Date of creation: date of registration

Last client login date: last login date

Date of last issued command: date of last output control

Command send

You can restart our module. After restarting, wait for the device to reconnect to the mobile network.



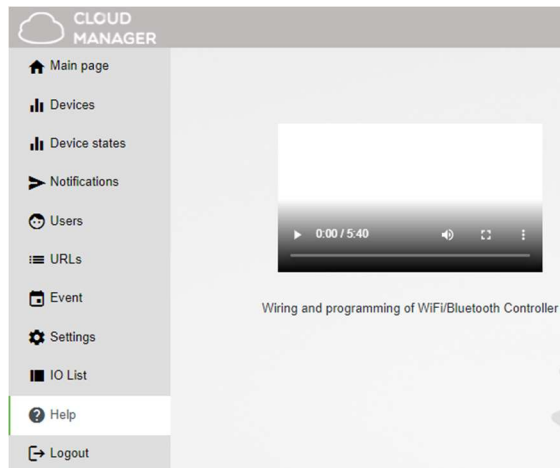
IO List

In the IO list we can change the output and input names, we can control the output and we can specify the output opening time in seconds. Maximum time that can be set: 65,535 seconds. This menu item can be used to control multi-output devices and IP modules, but of course it can also be used to configure the GSM module.

Help

Help is available in the form of a video.

Our videos are constantly being updated and expanded.



Programming with SMS commands

Module can also be programmed by SMS commands. SMS starts 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. The module (if it is possible) will send reply SMS after every message. You can switch this off with **NO SMS** command or with the **RECALL** command when the module makes a call to confirm the successful programming. Command criteria:

- can not contain accented characters
- command characters are capitals
- commands have to be separated with space
- besides = you can also use #.
- messages have to start with security code that is followed by first command without space
- SMS text command has to end with # 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		= yyymmddhhmm 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 +36)	1234ADD=+36305551234
removing telephone number from caller number identification list	DEL		= telephone number (with +36)	1234DEL=+36305551234

saving/editing telephone number for notification	TEL	x	telephone ordinal number from 1 to 8	=	telephone number (with +36)	1234TEL1=+36305551234
input setup	INPUT	x	input ordinal number	=	<p>tnneeeeeeee t:0 → switched off, 1→24 h normal, 2→ backup; 3→normal alarm 4→ delaye alarm nn→ NO or NC eeeee..: Other parameters: 1.e=1→ send SMS of status reversion 2.e=0→ compulsory 0 3.e=1→siren sound 4.e=1→voice message 5.e=1→remote surveillance 6.e=1→ no need to pickup when calling 7.e=1→DTMF confirmation (#) 8.e=0→ compulsory 0</p>	<p>1234INPUT1=INC0010000 0 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</p>
Output setting	OUTCONF	x	output serial	=	<p>iiiiirhn iiii→if 00000 then it will be bistable, otherwise it is the duration of control in seconds r→ controlled when larm h→controlled when call n→=1→ without caller identification</p>	<p>1234OUTCONF=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</p>
Life sign sending	LIFETEST	=			<p>cccsstttttt ccc→cycle time, how often to send message (ex.:030days) ss→on the given day at what time (ex.: at 12 o'clock) ttttttt→ which elephone number to choose from the 8 ex.: 00100000→3rd phone number, 01010000→2nd and 4th etc.)</p>	<p>1234LIFETEST=007110010 0100 -in 7 days -at 11 a.m. -sending to 3rd and 6th telephone number</p>
Setting up notification sending	SEND	x	1:1st input 2.: 2nd input 3.: 3rd input 4.: 4th input	=	<p>ssssssssvvvvvv ssssssss→ selecting phone numbers for SMS notification (0 or 1)</p>	<p>1234SEND2=0010000011110000</p>

			9.: tamper 10.: power source monitor 12.: life sign		vvvvvvv→selecting phone numbers for call (0 or 1)	
SMSTEXT	x		1.: 1st input 2.: 2nd input 3.: 3rd input 4.: 4th input 9.: tamper 10.: power source monitor 12.: life sign 16.: reverting text		SMS text ending with *. Text must not contain accented character!	1234SMSTEXT1= alarm text*
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
Requesting module status information	INFO				Command	1234INFO
no SMS after SMS programming	NOSMS				Command	1234command1 command 2 ... NO SMS
output control	OUT	x	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 1234OUT2=OFF Output2 switches off 1234OUT3=RUN Controlling output 3 1234OUT4=00003 Output 3 switches on for 3 seconds
Restarting module	RESTART				Command	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=+36201255335 CLOCK=1401200922 INPUT2=4NO00100000 SEND2=0010000000100000

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=→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=→ setting 2nd input to the following: delayed normal open input that sends siren alarm when there is an event.

SEND2=→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=+36705553456

IFETEST=007123000100000 CODE=2345

SMSTEXT2=→modify SMS text of second input. No accented characters!

OUTCONF1=→ 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:

The screenshot shows a software window titled 'Kimenet 1:'. It features a dropdown menu set to 'Egyállapotú időzített (MONO)'. Below this, there are radio buttons for 'Sec' (selected) and 'Min', with a numeric input field containing '3' and a 'Teszt' button. At the bottom, there are four checkboxes: 'Vezérlés bejövő hívással' (checked), 'Vezérlés hívószámazonosítással' (checked), 'Vezérlés riasztáskor' (unchecked), and 'SMS küldése a kimenet változásakor' (unchecked).

First step: set up the outputs

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

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
- 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**

Manufacturer 's responsibility

The Manufacturer assumes any responsibility for the operation and use of the system, including the proper use of the hardware and software, in accordance with applicable law.

The Manufacturer shall not be liable for damages resulting from:

the user loses or steals the device capable of controlling the system or the personal data referred to above, thereby enabling an unauthorized person to gain access to the system; the user chooses a simple or easy-to-crack password; user intentionally, in good faith, directly or indirectly, transfers to a third party any personal data or control device necessary for the use of the system.