ASC Global



ProLine 4G Cloud

PROFESSIONAL 2G/4G GSM/GPRS TRANSMITTER



ProLine 4G LAN Cloud

PROFESSIONAL 2G/4G GSM/GPRS / IP TRANSMITTER



Content

Device description and operation 4
The module buildup 5
Installation guide 6
Technical parameters 6
Installation steps: 6
LED signals 7
Tamper – Factory reset 7
Connecting the module (PC) 7
Connection with Bluetooth adapter 8
Programming using PC software 8
Connect to the module 9
Program structure 9
Module status check 10
GSM field strength indication 10
Event log 11
Read IMEI number 11
GSM Chip monitor 11
PC security password 11
Firmware update 12
Monitor + AT 12
BUS Module 12
VoLTE 12
LTE Disable 12
LTE Enable 12
Module settings menu bar 12
Basic data 12
Phone numbers 12
Enter control phone numbers 12
Input configurations 13
Adjusting outputs 14
Voice Message Settings 15
Other setting options 15
Power supply monitoring setup 16
Life signal sending setup 16
Own signal codes (Contact ID) 16
GPRS settings 17
Factory reset 17
ProLine 4G Cloud in Cloud 17
Download application 18

Mobile application description 18
Add device 18
Cloud settings 19
APN settings 20
Control page 20
Slide permission 21
Create a Cloud control icon .....
Device settings 22
Communication 22
Cloud 22
Functions 22
Settings 23
Start page 23
Color theme 23
Swipe enable 23
Language 23
Cloud Status Refresh 23
Order 23
Create SIM icon 23
WEB - ASCloud Manager description 24
Devices registration on ASCloud Manager website 25
Select language 25
Create your first cloud connection 25
Add registered device 26
Notifications 27
Push the „Add notification" button 27
Add and manage users 29
Create URL control icon 31
Event list 31
Settings 32
Information 32
Command send 32
Programming with SMS commands 33

Device description and operation

The GSM/GPRS/LTE/IP device can be used as a supplement to alarm centres as a transmitter with 2 inputs or as a GSM/GPRS/LTE based line simulator. The module has two contact inputs and one contact-controlled output. It can send notifications to 8 phone numbers in the form of SMS and/or voice messages.
The sending of the notification can be triggered by a signal arriving at one of the 2 inputs, a power failure, or sabotage. We have the option to provide the notifications with a separate voice message, which is played when the call is received. These recordings can be a maximum of 8 seconds long. A common identification message can also be recorded with a voice message, the maximum length of which is 15 seconds.
The output can be controlled with a free call from an unlimited number. When controlling by calling number identification, the numbers can be stored in the module's internal memory (in this case, 1000 numbers can be entered) or on the SIM card inserted in the module. Call number identification prevents unauthorized control of the device connected to the output.
The output can also be controlled using an SMS command, which can be an instruction different from the setting (e.g.: bistable, the output is controlled for 10 seconds despite the off state)
You can read more about this command on SMS command page.
The module is capable of storing 16,000 events, in which the state of inputs and outputs, power restart, information about the GSM network and the state of the module, as well as incoming and outgoing calls and SMS are recorded.
The tamper microswitch on the module can be used as a tamper indicator with the same setting options as the inputs. Pressed and held before switching on and then released after 3 seconds after switching on, it functions as a "reset", which can be used to restore the module to the factory default state if necessary.
The device is able to convert the Contact ID codes from the alarm center into text that is easier for the end user to interpret and forward it in the form of an SMS to the 8 specified phone numbers. The text of the SMS to be sent and the phone numbers designated for sending can be changed freely per code.
In addition to continuously monitoring the power supply, the module also checks the status of the GSM field strength. It can be read on a graph that can be displayed with a resolution of up to 1 hour using the programming software.
With the help of expansion modules, the device can be equipped with another output (EXP Relay, EXP Relay3). These outputs can also be freely configured independently. The module can be programmed via SMS command, PC, and thanks to developments, or if a Wifi/BT Programmer is connected, with a suitable WIFI connection, remote "Cloud" programming can also be performed.

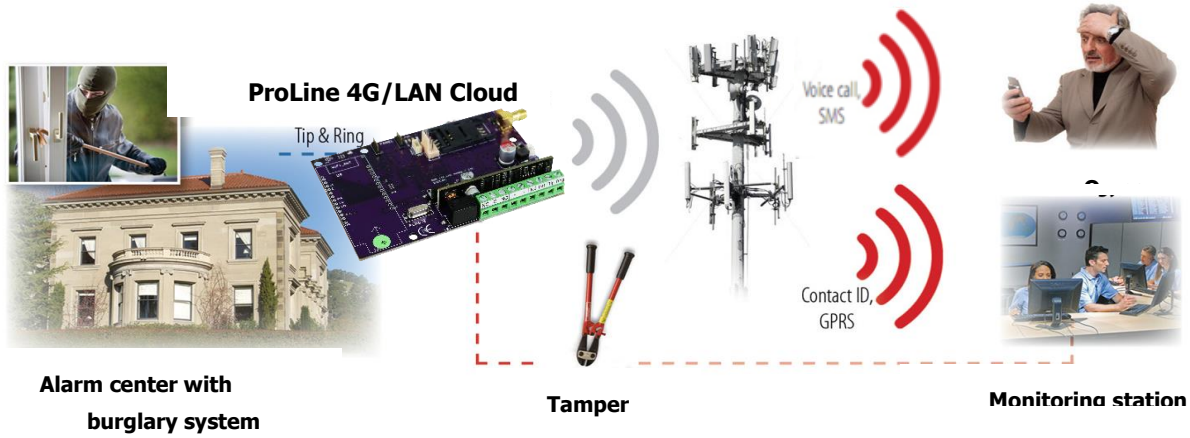


Figure 1. Device operation

The module buildup

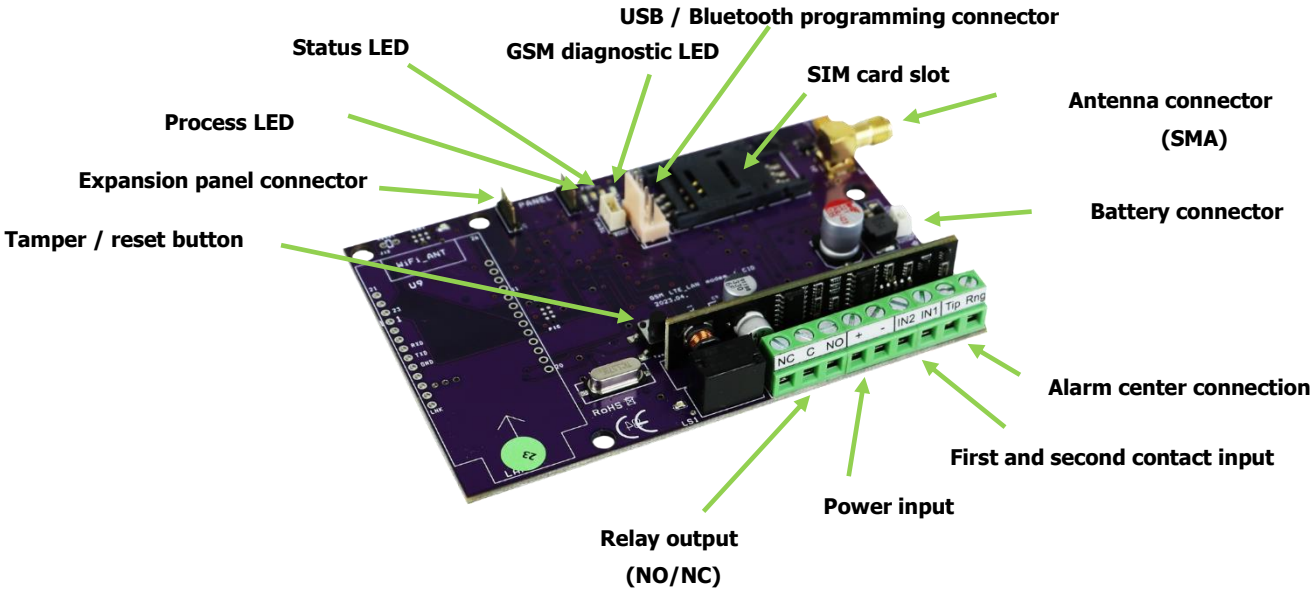


Figure 2. The module buildup

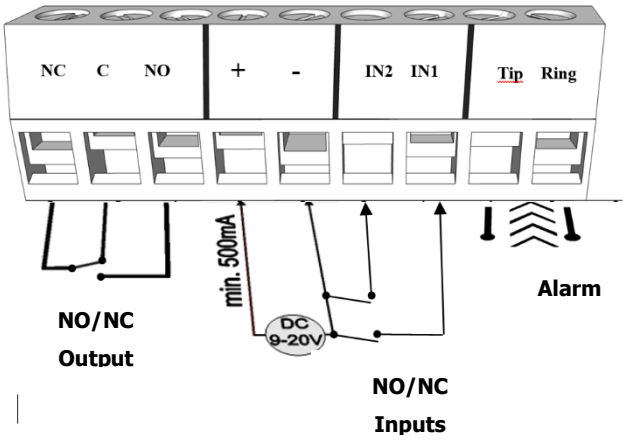


Figure 3. Connecting the terminal block

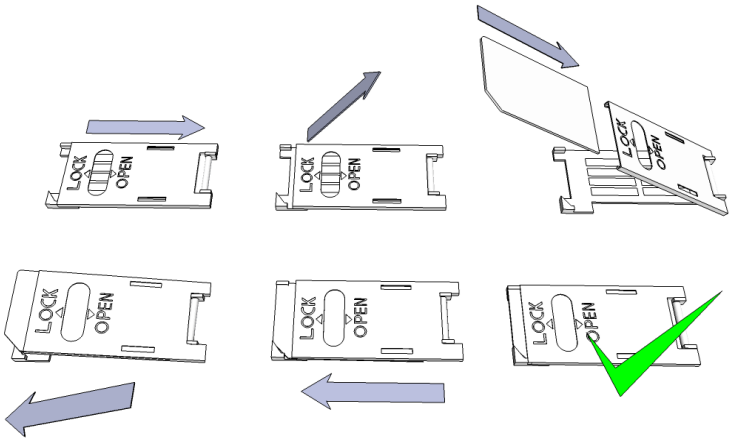


Figure 4. Inserting a SIM card

Installation guide

Technical parameters

- Power Voltage: 9-20 VDC
- Standby power drain: 80 mA
- Maximum power drain: 1000 mA
- Relay output load: max. 30V / 1A
- GSM module type: SIMCOM A7672E
- 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: 110 x 68 x 25 mm, packed: 132 x 128 x 32 mm
- Operation temperature: -20°C - +50°C

Installation steps:

1. Perform a field strength measurement with your mobile phone. The field strength may need to be increased in the desired location. In this case, changing the module's location is recommended before installation.
   Do not install the device where strong electromagnetic interference may occur, e.g. near electric motors, right next to the alarm transformer. Do not install in a wet or high-humidity location.
2. Connect the antenna, which can be fixed with an SMA connector. Use an antenna with a higher gain in case of poor field strength. You can also improve the field strength by changing the location of the antenna. **Do not place the antenna under the metal casing of various equipment, as this can significantly reduce the field strength.**
3. **Disable PIN code request, voicemail and call notification on the SIM card before installation. The exact procedure depends on the mobile network provider and tariff plan, so always check the current provider instructions before commissioning. Newly purchased SIM cards may need to be activated first, usually by making an outgoing call. Check the SIM card validity, balance and service options, especially with prepaid cards.**
4. Before inserting it into the module, it is advisable to check the correct operation of the SIM card by inserting it into a telephone device. The display of the calling number must be checked on the card from both the calling and the called side. This function must be enabled separately for some service providers.
5. Insert the SIM card into the module card slot.
6. Connect the terminals according to the wiring diagram. Ensure proper electrical protection.
7. If you do not have the necessary experience, ask for expert help.
8. Check that the power supply is sufficient for the module. Pay attention to the polarity. If the polarity is reversed, the module will not start and may be damaged.
9. After that, the device can be connected to the power supply.
10. If you bought a battery, connect it to the device. **Only use the external battery available from us for the backup power supply of the module!**
11. After applying power, the red LED will light up, which indicates that the device will start contacting the **GSM network (it can take up to 1 minute).**
12. If the red LED goes out and the green LED flashes, the module is operational and has logged on to the network**. The number of flashes indicates the value of the GSM field strength.**

The power supply must be connected for programming!

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.

- The PHONE LED (Red) is continuously lit to indicate that the alarm control panel connected to the module is operating. The same LED flashes to indicate signal transmission.
- 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 LEDs flash simultaneously, the module is indicating an error that can be identified using 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 exit modem mode, open the module status window in the Maintenance menu.

Tamper – Factory reset

The tamper button is a microswitch located on the device. In the case of our Pro series products, it protects the module and its cover against sabotage. Its setting options are the same as any input setting. The tamper button should be interpreted as closed by default when using a cover. So, removing it will trigger an alarm.

- Press and hold the button before power-up, then release it 3 seconds after power-up to reset the GSM device settings to factory defaults.

Connecting the module (PC)

Connection procedure using a USB adapter

1. USB adapters cannot provide enough power to the GSM module for programming, so connect the power supply.
2. Connect the USB adapter to the corresponding connector of the module.
3. Using a USB extension cable, insert the USB connector of the adapter into any USB port on the computer.

ATTENTION! For Windows OS, the system will offer to install the driver automatically. It is IMPORTANT that you **do the installation using the USB driver**, not the system.

Manually install USB driver in 10 steps

✓ Get the required driver from our website
✓ Use the 32-bit or 64-bit driver compatible with your system for the rest of the installation
✓ This can be determined in the menu item Control Panel → System
✓ Connect the USB programmer to your computer
✓ Turn off the automatic installation option offered by the system.
✓ Open the **Device Manager** window under the Control Panel → System → Hardware tab.
✓ In the window that appears here, look for the **unknown device** that appeared among the other devices (which in this case is the programmer itself,; it will appear as a **USB Serial port**). If you do not see such a device, start the "Search for hardware changes" process from the top menu bar of the window.
✓ By double-clicking on the unknown device, the properties of the device will be displayed
✓ Start the driver update function
✓ In the resulting installation window, choose to manually determine the location of the driver, and then select the directory for the 32-bit or 64-bit version of the driver.
✓ Click on the next button and start the installation
5. Open the device manager (by clicking System → Properties → Hardware tab → **Device Manager**)
6. Find the device labeled USB Serial port (COM...) under Ports
7.If it is necessary to reinstall the driver, then by clicking on the device here, first click to remove the driver, then proceed as described in the previous step.
7. Open the programming software
8. You must set the value in the bracket [USB Serial port (COM...)] in the programming software.
9. If this was successful, the module's name will appear next to the Start button after the connected GSM module.

Connection with Bluetooth adapter

1. Connect the Bluetooth adapter to the GSM module and then power it on.
2. Activate the Bluetooth connection option on your programming device (PC and Android/iPhone mobile phone).
3. Search for the programmer using your Bluetooth-enabled device.
4. After finding the adapter, use the **default code 1234** to pair your computer, smartphone, or tablet with the adapter. After pairing, the programmer can be found under the name **WiFi/BT Programmer**.
5. Find the COM port identification number of the connection (Usually found under Properties ->Hardware tab)
6. Also set the Port number on the programming software (PC) or select the automatic port search option.
7. Connect to the GSM module.
In any case, you can confirm that a successful connection has been established by the name of the connected GSM module appearing next to the Start button of the programming software, and the green LED on the programmer starting to flash.

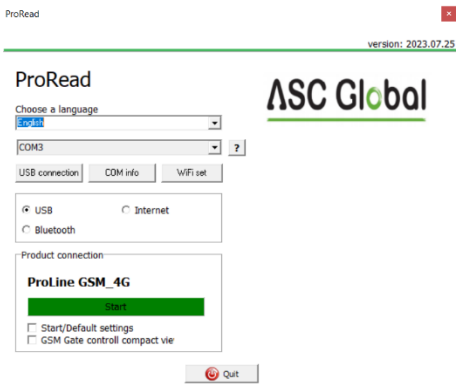
If the connection is established between the adapter and the computer or mobile phone, you can start configuring the module.

- By clicking the **Start** button, the module settings will be read after connection
- Clicking on the **Start/Default** config button resets the module to the factory default value (after confirmation)
- In the case of an Android application, the settings are always read after connection

Programming using PC software

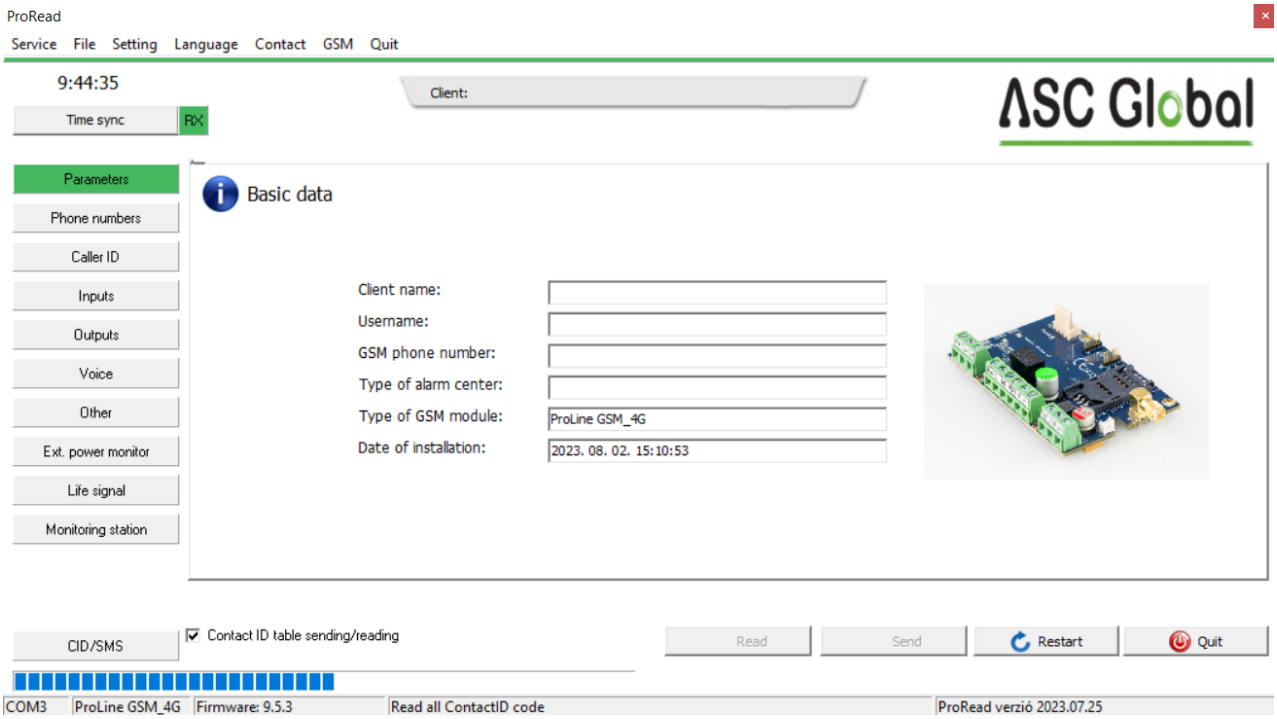
- For PC settings and programming, use our software, which you can download for free from our website.
- The program can be run independently and does not require installation. • Compatible with Windows 7, 8, 10 and 11 operating systems
- Make sure you are always using the latest software!
- If newer software is used, updating the module before the first configuration is recommended.

Connect to the module



- Choose whether you want to program the module using a USB or Bluetooth connection.
- In the drop-down list below the selection of the program language (COM9 in the picture), you can choose which port you want to communicate with the module's programmer. You can find this value (in case of Windows operating system) under the device manager -> COM port by selecting the connected programmer. If you can't find it, press the **COM info** button to jump to the Device Manager, where you can find the required COM port.
- In case of successful connection, you will see the name of the module on the product connection panel.
- By clicking the **start** button, the software connects to the module and reads its contents.
- By pressing the **Start/Default** config button after connecting to the module, it will be reset to the factory default values (The software will ask for this before the operation, if this function was not previously disabled).
- If you do not want to connect a module yet and are only interested in the setting options, you can freely choose which module's setting options you want to learn about in the **Products - trial** window. At the same time, it gives the possibility to program the module in advance.

Program structure



Elements of the top menu bar:

- *Maintenance*: Basic menu items with the menu items required for module maintenance (e.g.: to view the status of the module, read the event log, deactivate the SIM PIN code, update the firmware)
- *File operations*: Save and load settings
- *Descriptions*: View wiring diagram
- *Settings*: Set window size, Disable confirmation questions
- *Language*: Select language (available languages: English, Hungarian, Italian, German, Slovak, Slovenian, Dutch, Czech, Finnish, Romanian)
- *Contact:* Our contact details, e-mail addresses, phone

• you can use tabs to switch between windows with different setting options

- By clicking the **Clock Synchronization** button on the main page, the module synchronizes its internal clock with the computer clock.
- After the device is connected to the GSM network, this synchronization will be performed automatically through the service provider (if the network supports this service).
- The Read and **Send** button at the bottom is used to read and change the configuration on the module. These buttons are available everywhere except the Control phone numbers tab.

It is advisable to use the **Send** button after all important and larger settings.
Before submitting your settings, please ensure that it does not cause unexpected alarms. Before doing so, it is recommended to view the current status of the module (Maintenance tab)

ATTENTION! After connecting**, always read the settings first** if you want to change them. You can restart the module with the Restart button. **After monitoring, it is recommended to restart the device.**

The bottom menu bar:

- Number of communication port
- Name of GSM module
- Firmware version number
- Note about the current software operation
- ProRead oftware version number

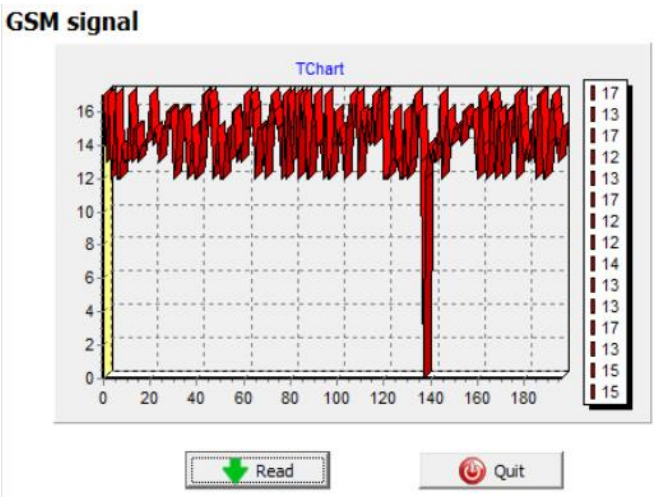
Module status check

You can access the current status with the button **Maintenance** → **Display** module status.
When querying the status of the module, you can find out the following information:

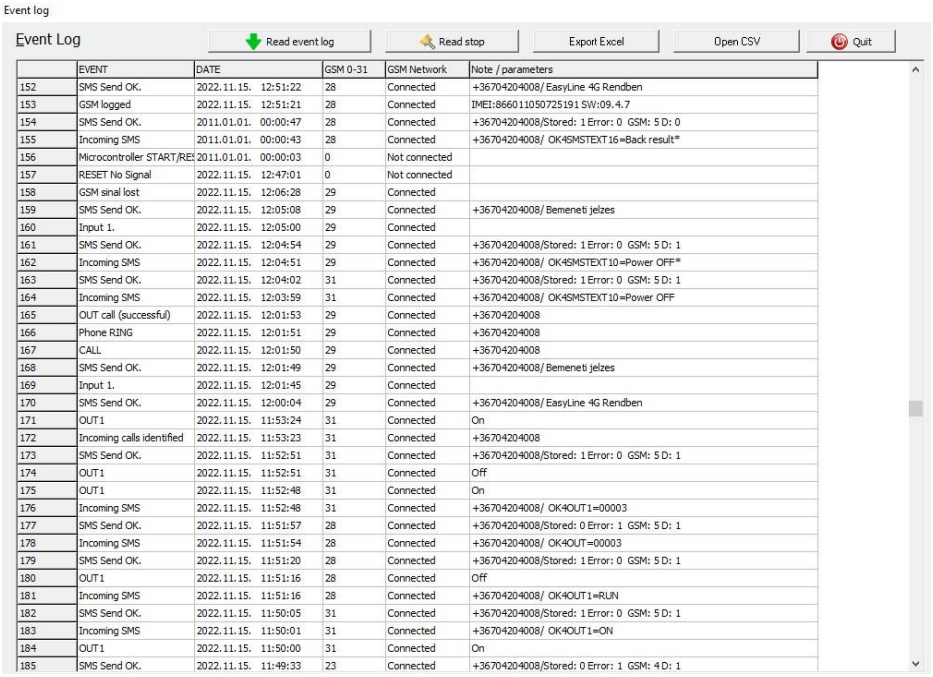
- Status of inputs
- Status of outputs
- Tamper signal
- Indication of power failure
- Display of failure/event (e.g.: SIM card not inserted, SIM card locked with PIN code)
- Monitoring the process of sending Contact ID messages (for remote monitoring) (e.g. handshake status)
- GSM connection status (e.g.: Registered to network, Roaming, No connection, Connection refused)
- Current GSM field strength (updated in a few seconds)

GSM field strength indication

- You can display the graph shown in the picture about the state of the GSM field strength.
- You can display the GSM field strength with the button Maintenance → Display GSM field strength.
- Press the read button to read the values.
- The change in field strength is displayed in hourly resolution. The elapsed time must be read backwards accordingly
- The diagram is divided from 0 to 31 on the vertical scale, the value 31 means the best field strength.
- The figure can be enlarged as desired with the left mouse button.



Event log


Event log

Event Log

Read event log | Read stop | Export Excel | Open CSV | Quit

	EVENT	DATE	GSM 0-31	GSM Network	Note / parameters
152	SMS Send OK.	2022.11.15. 12:51:22	28	Connected	+36704204008/ EasyLine 4G Rendben
153	GSM logged	2022.11.15. 12:51:21	28	Connected	IMEI:866011050725191 SW:09.4.7
154	SMS Send OK.	2011.01.01. 00:00:47	28	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 0
155	Incoming SMS	2011.01.01. 00:00:43	28	Connected	+36704204008/ OK4SMSTEXT16=Back result*
156	Microcontroller START/RE	2011.01.01. 00:00:03	0	Not connected	
157	RESET No Signal	2022.11.15. 12:47:01	0	Not connected	
158	GSM sinal lost	2022.11.15. 12:06:28	29	Connected	
159	SMS Send OK.	2022.11.15. 12:05:08	29	Connected	+36704204008/ Bemeneti jelzes
160	Input 1.	2022.11.15. 12:05:00	29	Connected	
161	SMS Send OK.	2022.11.15. 12:04:54	29	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 1
162	Incoming SMS	2022.11.15. 12:04:51	29	Connected	+36704204008/ OK4SMSTEXT10=Power OFF*
163	SMS Send OK.	2022.11.15. 12:04:02	31	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 1
164	Incoming SMS	2022.11.15. 12:03:59	31	Connected	+36704204008/ OK4SMSTEXT10=Power OFF
165	OUT call (successful)	2022.11.15. 12:01:53	29	Connected	+36704204008
166	Phone RING	2022.11.15. 12:01:51	29	Connected	+36704204008
167	CALL	2022.11.15. 12:01:50	29	Connected	+36704204008
168	SMS Send OK.	2022.11.15. 12:01:49	29	Connected	+36704204008/ Bemeneti jelzes
169	Input 1.	2022.11.15. 12:01:45	29	Connected	
170	SMS Send OK.	2022.11.15. 12:00:04	29	Connected	+36704204008/ EasyLine 4G Rendben
171	OUT1	2022.11.15. 11:53:24	31	Connected	On
172	Incoming calls identified	2022.11.15. 11:53:23	31	Connected	+36704204008
173	SMS Send OK.	2022.11.15. 11:52:51	31	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 1
174	OUT1	2022.11.15. 11:52:51	31	Connected	Off
175	OUT1	2022.11.15. 11:52:48	31	Connected	On
176	Incoming SMS	2022.11.15. 11:52:48	31	Connected	+36704204008/ OK4OUT1=00003
177	SMS Send OK.	2022.11.15. 11:51:57	28	Connected	+36704204008/Stored: 0 Error: 1 GSM: 5 D: 1
178	Incoming SMS	2022.11.15. 11:51:54	28	Connected	+36704204008/ OK4OUT=00003
179	SMS Send OK.	2022.11.15. 11:51:20	28	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 1
180	OUT1	2022.11.15. 11:51:16	28	Connected	Off
181	Incoming SMS	2022.11.15. 11:51:16	28	Connected	+36704204008/ OK4OUT1=RUN
182	SMS Send OK.	2022.11.15. 11:50:05	31	Connected	+36704204008/Stored: 1 Error: 0 GSM: 5 D: 1
183	Incoming SMS	2022.11.15. 11:50:01	31	Connected	+36704204008/ OK4OUT1=ON
184	OUT1	2022.11.15. 11:50:00	31	Connected	On
185	SMS Send OK.	2022.11.15. 11:49:33	23	Connected	+36704204008/Stored: 0 Error: 1 GSM: 4 D: 1

You can open the event log with the **Maintenance** → **Read** log button:

- The GSM module can store the last 16,000 events in FILO (First in - last out) mode
- You will receive brief information about the event in the **Signal** column.
- In the **Date** column, you can see the time of the event (year, month, day, hour, minute, second resolution). **IMPORTANT!** The date will be accurate if the module's internal clock is synchronized with a computer clock or the GSM network. The latter is done automatically by the module as soon as it is connected to the provider's network.
- **GSM 0-31** shows the value of the field strength when registering the signal. 31 is the highest value and 0 indicates no connection.
- Other extra information about the signal is entered in the **comment/parameter** column.
- When opened, the table is empty, to start reading, click the Read Event Log button.
- In terms of order, the most recent data will appear at the top of the list and the older entries will appear downwards.
- If it is not necessary to read the entire list, you can stop the reading by clicking the **Stop Reading** button.
- The read list can be exported from the software as a "csv" table (e.g. Excel), so it can be easily sent and stored for later analysis.

Read IMEI number

We can find out the IMEI number of our module by clicking on this menu item.

GSM Chip monitor

We can save the service technical details of the module's operation if the manufacturer's help is needed for troubleshooting.

PC security password

You can set a PC protection password to open ProRead, so unauthorized people cannot see the set data. If the PC password is not known, the reset is only possible with the **"Hard reset"** function!
In the case of a hard reset function, all information set in the module is reset except for the control phone numbers. It is stored in another internal memory.

Firmware update

Due to our continuous developments, to access newer functions or even due to changes made by GSM network providers, it may be necessary to update the internal FW of the module.

IMPORTANT! Always ask a technical staff member for help regarding the need for an update. The update is not necessary in all cases, in unjustified cases it can also damage the module!

Monitor + AT

Service function.

BUS Module

It allows you to set up a BUS expansion panel that can be connected to the module. (Under construction)

VoLTE

It enables a special VoLTE network connection

LTE Disable

We can turn off 4G network access, so the module will work on a 2G network.

LTE Enable

We can switch back on 4G network access. (On by default)

Module settings menu bar

Basic data

You can enter more important information about the installed module. In addition to the customer's name and installation address, you can also specify the phone number of the SIM card inserted in the module and the type of the connected alarm center.

- The entered data is stored on the module
- Completing it can be useful in case of maintenance performed later.

Phone numbers

In the phone numbers menu, you can enter the numbers to which you want to send SMS and/or voice messages. The numbers entered here must be in international format for reliable operation.
(Ex.: +36301234567 or 0036301234567)

- You can enter a maximum of 8 phone numbers to be notified.
- You can select these numbers in other parts of the program.
- You can also edit the list here via SMS with the command "TELx=Telephone number", where "x" denotes the serial number of the phone number you want to edit.
- (Example: 1234TEL1=+36301234567, 1234TEL2=+36304564323)

You can read more about SMS commands on SMS command page. After making changes, select Submit to save.

Enter control phone numbers

- In the Control phone numbers window, you can specify which numbers can control your outputs.
- Phone numbers can be stored in the module's internal memory (up to 1000), and you can save additional numbers on the SIM card inserted in the module. The phone numbers on the SIM card can only be read with ProRead, we do not recommend using it for output control.
- If internal memory is used, the module will be independent of the memory content of the inserted SIM card.
- Before editing the list, always read the contents of the memory using the Read numbers from memory button. To save, use the Write numbers to memory button.

- **Entered phone numbers must be in international format.** Here, due to the length of the number, +36 is recommended (e.g.: +36301234567). In the case of a longer phone number (+43), the prefix can be omitted, the module checks the phone number from the last digit of the phone number backwards.
- It is also possible to save, edit and open stored numbers (from a .csv file).
- You can also assign phone numbers to specific outputs.
- You can also change the list using an SMS command using the commands ADD=Phone number (add) and DEL=Phone number (delete).

(Example: 1234ADD=+36301234567, 1234DEL=+36301234567)

You can read more about SMS commands on SMS command page.

Input configurations

The GSM module has dry contact inputs. Before reviewing the settings, examine the possible input wiring options in the picture below. The inputs can have individual settings.

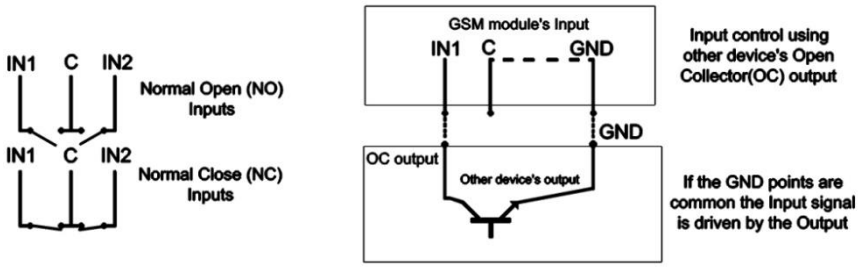


Figure 5. Normally Open (NO) and Normally Close (NC) wiring

On this page, you can choose which phone numbers you want to be notified in the form of an SMS or voice message if there is a short circuit or disconnection that triggers an alarm at the given input. It is even possible to send both notifications to the same phone number.

You can choose how the input should work in the input type panel:

- 00/Not used: the unused input can be switched off, so that no disturbing signal can be accidentally applied to it.
- 01/24h normal input: 24-hour, permanent input, independent of arming status.
- 02/Reserved: option reserved for later development purposes.
- 03/Central input: input that sends an alarm only when the module is armed.
- 04/Central delayed input: when armed, this input starts a countdown (can be set on the "Other" tab), during which time we have the option of disarming.
- 05/Arming/Disarming: input for arming and disarming the module. This can only be controlled with continuous contact (e.g.: key switch). By default, a closed setting is recommended, in which case any break in the formed loop results in immediate arming.

- For an input, we can specify whether it should be normally open (NO – Normal Open) or closed (NC – Normal Close) by default.
- We can also request an SMS notification of the status of the input. The reset SMS text can be entered on the other tab for the SMS text when the input is reset.
- In the case of signaling with a siren sound, the voice call message will be a 25-second siren sound, while if you also select the voice message, then only 5 seconds.
- When sending a voice message, you can send a pre-recorded voice or one specified by us via voice call (Sounds tab)
- It is possible to set the call not to be answered. In this case, the module will not initiate a call again in case of a successful call, regardless of whether the call was actually received or not.
- ProLine 4G Cloud does not have a DTMF acknowledgment function.

- For the first input, it can be set to send an alarm immediately when the module is switched on. In this case, the module will trigger an alarm immediately regardless of the arming state. This function is recommended if you want the module to trigger an alarm immediately.
- In the SMS text field, you can enter the content of the message, that can be a max. 32 characters long.

It is possible to modify the inputs via SMS command with the following parameter:

t: 0 -> switched off, 1 -> 24h normal, 2 -> reserved, 3 -> alarm normal, 4 -> alarm delayed; nn -> NO or NC. Other parameters: 1.e=1 -> restore message, 2.e=0 -> required 0, 3.e=1 -> siren sound, 4.e=1 -> voice message, 5.e=1 -> monitoring station, 6.e=1 -> no need to answer the call, 7.e=0 -> reserved / not used for this module, 8.e=0 -> required 0.

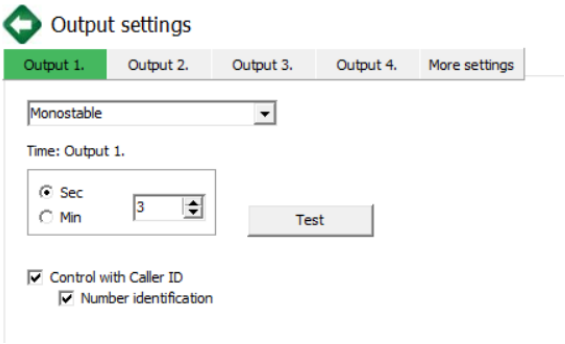
You can read more about SMS commands on SMS commands page.

The ***More settings tab has the following:***

Voice call parameters: specifying the **ringing and conversation time**, as well as the **number of call repetitions.** (SMS command: 1234RINGTIME=030 → ring for 30 seconds)

- By selecting the **circular call function**, the module calls all the designated phone numbers included in the given alarm and must acknowledge the alarm according to the functions selected for the inputs.
- If it is not checked, the module will not call the other set numbers after the first successful call.
- You can specify the SMS text that will be sent when the input is reset.

Adjusting outputs



In the Output window, the output settings can be changed. The output type can be monostable, meaning it switches for the specified period and then returns to its original state, or bistable, meaning it returns to its original state only after a new control command.

- For monostable operation, the switching time can be set in seconds or minutes. The maximum value is 65,000 seconds.
- The Unsuccessful SMS option controls the output when the network operator rejects an SMS.
- When GSM fault is selected, the output is controlled until the GSM network returns to normal.
- 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 caller ID control is enabled, you can choose between control by unidentified or identified phone numbers. By assigning SMS notification when the output changes, the module can send an SMS message about the output state change.
- Anybody can control the output with unidentified phone number controlling if he/she knows the phone number of the SIM card.
- If caller ID is enabled, control from a phone number not listed as an authorized control number will be denied. This greatly improves protection against unauthorized control.



EXP RELAY

- EXP Relay provides 1 additional output, and EXP Relay3 provides 3 additional outputs for the GSM module. With EXP Relay3, the module can therefore have 4 outputs in total.
- Only one expansion panel can be connected at a time. Expansion panels connect to the panel connector of the module.



EXP RELAY3

- Both expansion modules contain low-voltage relay outputs.
- EXP Relay has an NO/NC relay output; EXP Relay3 has jumper-adjustable outputs for NO or NC operation.
- Output settings can be modified by sending the following message:
- 1234OUTx -> Selectable parameters: ON, OFF, RUN or switching for a specified time (given in 5 characters)

- Example: 1234OUT1=00003 -> controlling output 1 for 3 seconds

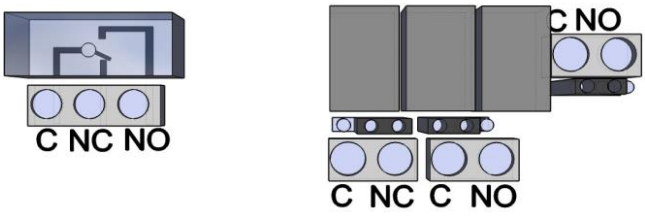


Figure 6: Exp Relay and Exp Relay 3

Setting the output is possible by sending the following message:

- Example: 1234OUT1=00003 -> controlling output 1 for 3 seconds

Voice Message Settings

In the Voice menu item, you can choose which recorded voice message to play for different alarms.

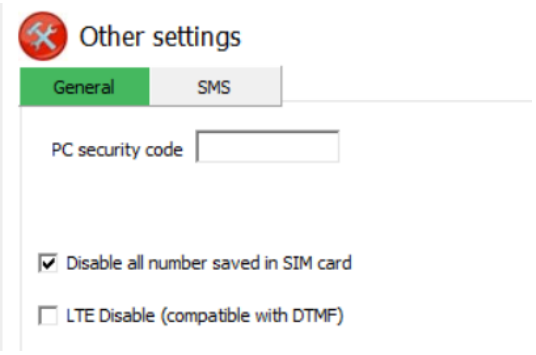
- The role of the identification message is to identify the module (e.g.: address, object name), if we expect notifications from several modules.
- With the help of the red recording button, it is also possible to record your own voice using the microphone connected to the machine, the length of which can be a maximum of 8 seconds, or 15 seconds for an identification message.
- When recording, the sound is taken from the default microphone, so it may need to be adjusted before recording (signal level, amplification) to achieve the appropriate volume and quality.
- You can listen back to the recording with the play button.
- If you want to upload a pre-saved audio file, clicking on the text box next to the text defining the event will open a file operation window.

The format of the sound file must match the format used on the GSM network. It must be an 8 kHz sampled, 8-bit, one-channel PCM modulated file with a ".wav" extension.

If you have the desired sound, you can upload it to the module by clicking the **Upload** button.

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.

Other setting options

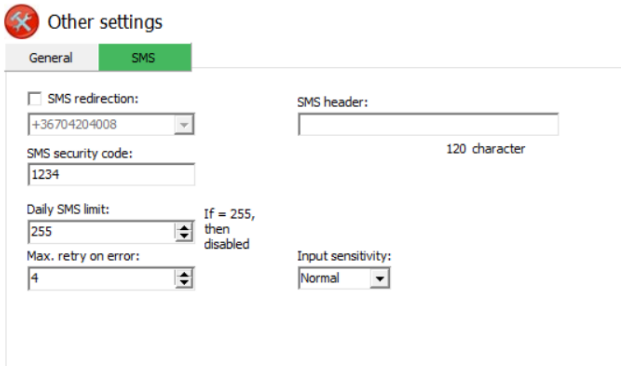


Other settings related to the module are available here.

The **General** tab has the following:

- To change the PC security code (an empty field disables the request for the code).
- Phone numbers stored on the SIM card can be blocked.
- Select expansion panel (output expander is currently available)
- Entry delay when using delayed input.
- Specify SMS text when the alarm is reset (SMS command: 1234SMSTEXT16=sms text*).
- To change the PC security code (an empty field disables the request for the code).
- Save the output status in the internal memory so that the output status can be restored when the device is switched on.
- Input sensitivity (off: 10 ms, low: 100 ms, normal: 400 ms, medium: 1 sec, strong: 5 sec)

The **SMS** tab contains the following:



SMS forwarding to one of the 8 phone numbers to be notified. Attention! Never select the module's own phone number here!

• It is possible to enter the SMS programming security code here.

• Daily SMS limit: You can define how many SMS messages the module can send in a day. This function can be turned off by setting the value to 255. If you set this limit to 0, the module will not send SMS!

• The maximum number of attempts in the event of an SMS sending error can also be set.

• Redirection of SMS received on the module to a given number to be notified.

(SMS command: 1234REDIR=1...8)

• SMS header, the text of which will appear before the text of each SMS.

• Input sensitivity (off: 10 ms, low: 100 ms, normal: 400 ms, medium: 1 sec, strong: 5 sec)

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 signal must 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=cccsstttttttt

• ccc → sending cycles/days (ex.: 007 days

• ss → hour of sending on a day

• tttttttt -> telephone number to be notified (e.g.: 00100000 -> sends the message to the 3rd phone number)

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

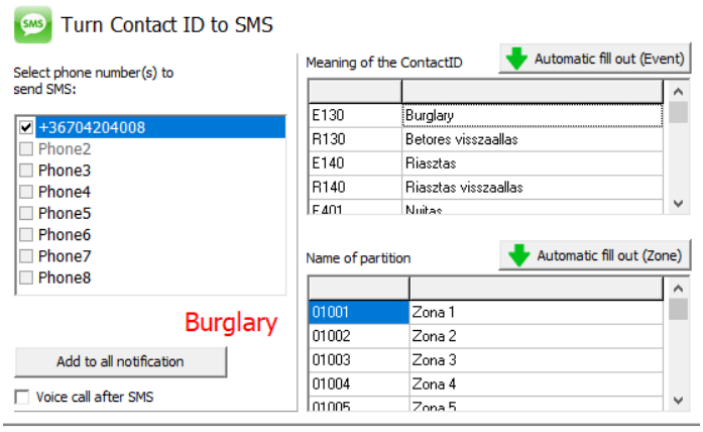
Own signal codes (Contact ID)

• The module can also transmit the signals generated by itself (e.g. signals coming to inputs, power failure) to remote monitoring.

• It is possible to change the codes of Contact ID and Zones.

• You can monitor the notification in the menu Maintenance → Display module status. Here, the sending of the current Contact ID message is also displayed in the codes window.

• If the transmitted messages are confused, then the state of the field strength and the position of the module's antenna must be checked in every way.



• Always keep the connected antenna away from the module and any other electrical equipment or wires!

GPRS settings

On this page, you can set the protocol by which the information is transmitted. We recommend using TCP only in justified cases, much faster communication is achieved using UDP.
In the latter case, you do not need to fill in the username and password fields.

- currently supported communication protocols: ENIGMA and SIA IP
- When entering the server address, you can also enter an IP address, or you can also enter a domain name (in this case, you need to set up a DNS server).
- We can also set up backup servers for more secure communication.
- You can set the frequency of sending the test report, and if you wish, you can provide it with a unique Contact ID code.
- For the GPRS client code, it is possible to enter a preset code (specified on the remote monitoring page) or to enable the use of the code taken from the line using Tip/Ring.
- You can also enable the sending of your own signals (inputs, power monitor, tamper, life signal). You can enter the corresponding code on the remote monitoring tab.
- To use a GPRS connection, in the case of an alarm center, the center must dial the number 4444
- CID/SMS conversion setting
- The module can convert incoming Contact ID codes into SMS text and send them to designated phone numbers.
- The incoming event is only forwarded to designated phone numbers in the form of an SMS.
- The text of the event and the name of the zone can be changed freely for easier interpretation.
- We can also request a call notification after the sent SMS.
- It is recommended to fill in both code tables at the very first programming.
- Before selecting phone numbers, always select the cell of the selected event.
- To use this function, in the case of an alarm center, the center must dial the telephone number 5555. If we want to send all the messages to the same phone number, the center must dial 5555 + phone number (e.g.: 5555+36204441234)

Factory reset

Press and hold the button before powering on, then release it after 3 seconds to reset the GSM module to factory settings. This process is indicated by the ACT and STATUS LEDs flashing rapidly and alternately.

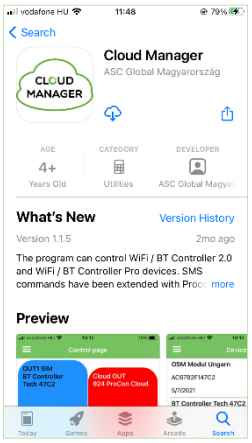
ProLine 4G Cloud in Cloud

The ProLine 4G Cloud module is available in the cloud. You can control the device output in the Cloud Manager application or on www.ascloudmanager.com after registration.

CLOUD MANAGER

Register the device with the CLOUD MANAGER application
To connect to the cloud, register the ProLine 4G Cloud module.

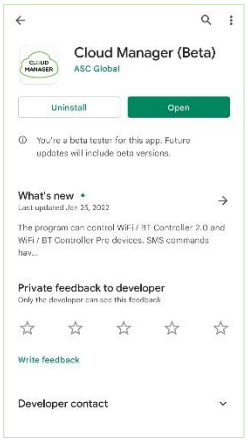
Registration can be created in Cloud Manager application or on the web at www.ascloudmanager.com.



1.

Download 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.



2.

Mobile application description

With the Cloud Manager application, you can set and modify the operating parameters of the devices we sell. You can configure **GSM, IP and Wi-Fi / Bluetooth control icons**, which can be operated via Wi-Fi, Bluetooth and mobile internet, depending on the device.

With the **ProLine 4G Cloud module**, the application allows you to:

- register the module in the cloud
- create a control icon to control the output on the application's "Control Panel" interface
- when creating a control icon, you can specify the control communication channel (Cloud, SMS), as well as the control type (monostable/bistable) and time. The created control button controls the module based on the set parameters. In case of successful control, a pop-up window indicates the execution of the control, in case of an error, a dialog window opens.

In the application, you can create an unlimited number of users for a device by specifying the users' e-mail addresses.

What are the advantages of the application?

- Control with quick start icon
- Output control time setting

(monostable / bistable output setting option)

- Unlimited number of users can be created for a device by specifying the users' email addresses
- Control of electric gates, barriers and other contact controlled devices
- The device can be easily configured with the application, no need to configure complicated network settings (e.g. Port forward)

Add device

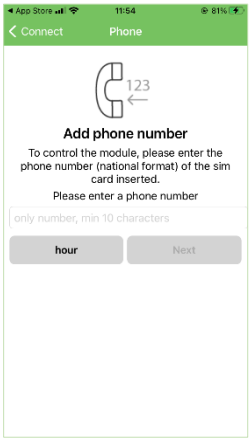


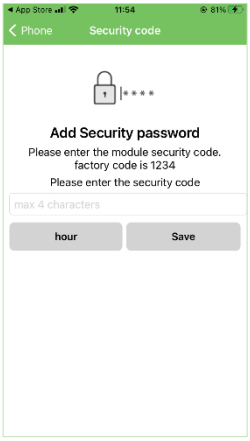


Press "+" to add a device, then name the location.
You can give a unique name to the location of the device to make it easier to identify the control device. (eg holiday home, gate)

Choose a connection channel to connect to the device.

Select SIM for ProLine 4G Cloud!







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

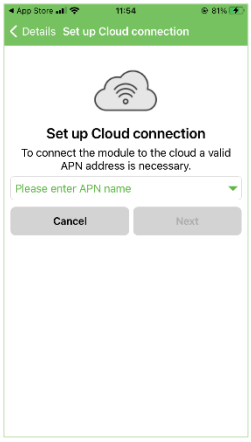
Enter the security code of the GSM module.
Factory code: 1234

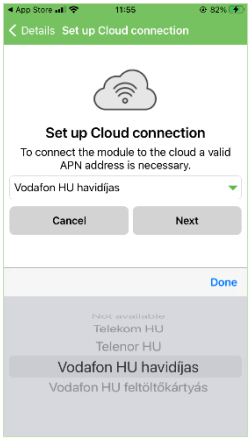
Press the save button and the device will appear in the list.

Cloud settings

Choose the **„Set cloud SIM”** menus.



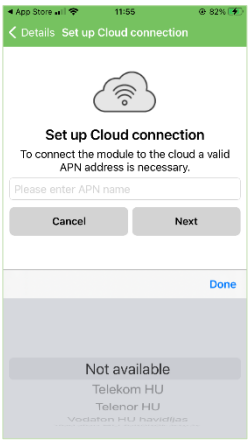




Choose one of the APN options from the list. The APN of the inserted SIM card is provided by the mobile network provider. We can select the appropriate setting according to our subscription or tariff plan.
APN values vary by provider and tariff plan. Always verify the current APN value with the mobile network provider before installation.

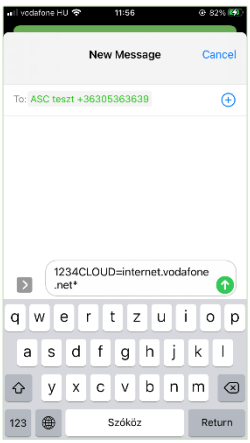
- **Telekom HU** (internet.telekom)
- **Yettel** (online)
- **One postpaid** (internet.vodafone.net)
- **One prepaid** (vitamax.snet.vodafone.net)

APN: Access Point Name



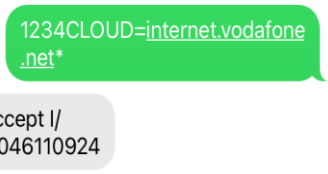
These addresses (APNs) are used to connect to the Internet with SIM cards purchased from different providers. The values usually vary from provider to provider and may also depend on the current service plan (prepaid or postpaid).
If you connect to a service provider in another country with a home SIM 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

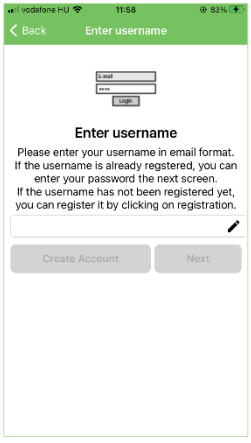


The application creates the SMS command required for the cloudy connection of the module as an SMS message to the number we have specified in the application. Press the send button.

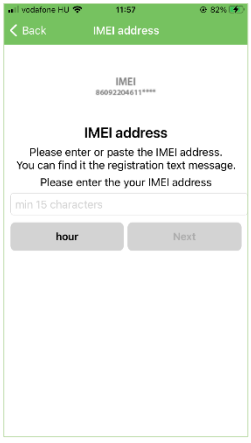
After sending an SMS command, we will receive our IMEI number in a confirmation SMS. (860922046110924)



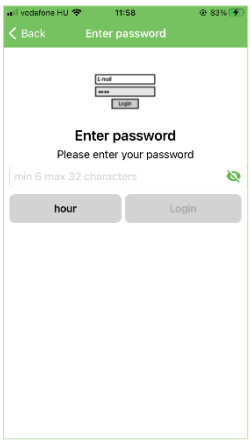
Copy and paste the entire message into the Cloud Manager application box.



1.



2.



3.

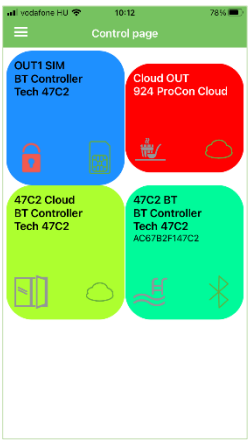
The application reads the required IMEI number from the message. (1)

Enter your user email address … (2)

… and the password. (3)

You will be able to access the module in the cloud as an admin user with this e-mail address. After a successful save, you can log in to **www.ascloudmanager.com** with your user account, where you will find your registered devices.

Control page



When you open the application, the control button of all devices controlled by **Bluetooth, Cloud connection or SMS command** created so far will appear on the control panel.

To create the icon (we will explain it in detail later), you must specify the name, color, icon, control type, control duration, and connection type of the icon. In the case of an Internet connection, the e-mail and password set during installation or later on the server are required.
You can customize the name, color, and icon of the control buttons from the list provided.

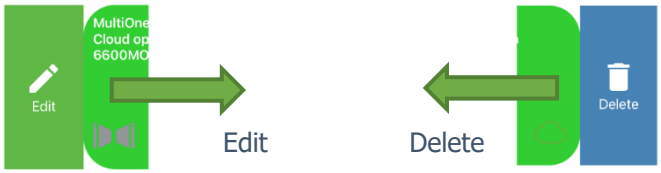
You can **drag your finger** to the right and left while holding the button.

You can **edit it by dragging it to the right**, and **delete it by dragging it to the left**.

To create the icon (detailed later), you must specify the icon name, control type, duration, and connection type. For an Internet connection, the e-mail and password pairing set on the server during installation or later are required. Then select the icon image, click the button to create a control icon on the control panel interface.

You can customize the name and color of the control buttons from the list provided.

By **holding the button**, you can drag your **finger to the right** and **left.**
Swipe right to edit, swipe left to delete.



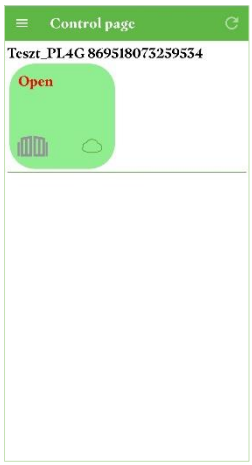
Slide permission

Slide the control icons to bring up an icon editor menu that you can turn ON / OFF in the settings menu.

Control button information

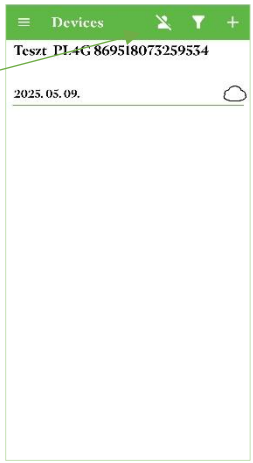
Information displayed on the control button:
• **Function button** name Unique name of the device or function you want to control
• **Location name** (name given during registration)
→This name can be used to easily identify multiple devices
• **Identification number** Depending on the device type, the module identification number is displayed

Create a Cloud control icon



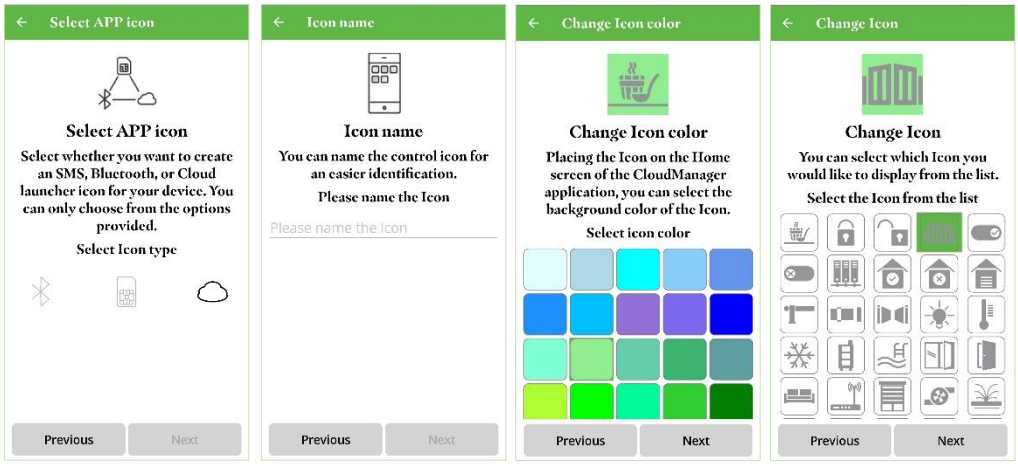
After successful cloud registration, you can create a 'cloud' control icon in the Cloud Manager application for remote access.

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



If there is no check mark, login 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.

Click on the line of your device to see its details, select the create icon menu item.
Select the Cloud icon with the "+" sign to create the control button. (1)



1. 2. 3. 4.

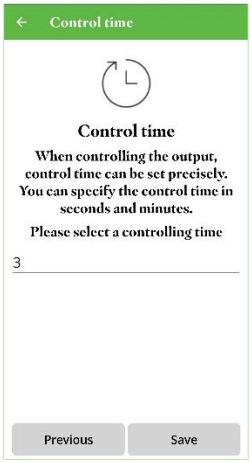
Name the control icon (Figure 2), then specify the background color of the control icon (Figure 3). Select a personal icon from the list (Figure 4).

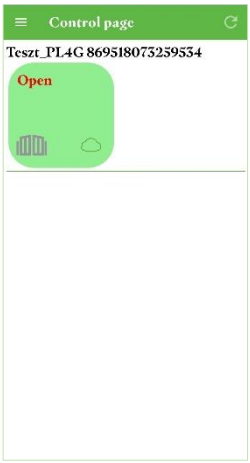
You can specify how long the control takes place in Monostable Control.
You can specify the control time by selecting hour / minute / second.

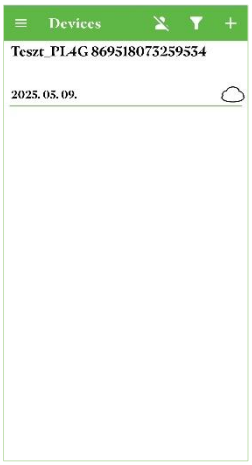
Maximum selectable control time:
18 hours, 12 minutes and 15 seconds i.e. 65,535 seconds.

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 ProLine 4G Cloud module with the created control icon.







Device settings

By clicking on the device line in the Tools menu, we can gain detailed insight into the operating settings and the connection status of the module.



Main details

Place

We can see the name we gave the device, which we can change at any time.

Type

Name and type of the connected device.

Communication

Phone

You can enter the phone number of the SIM card inserted in the GSM module in international format (+36301234567).

Bluetooth

If we connect a WiFi/BT Programmer to the RS232 connector, we can pair it with the module here.

Cloud

Set cloud SIM

Access Point Name

With SIM cards purchased from different service providers inserted into modules, we can connect to the Internet using these addresses (APN). These addresses usually vary from service provider to service provider, and may also depend on the current tariff plan offered by the service provider (prepaid or prepaid).

Functions

Add icon

You can create control icons in the application by clicking on the "Create Icon" line.

Settings



Start page

We can choose whether the **devices** or the **control icons** should be visible on the launch page when the application is launched.

By clicking the Save button, the application will open according to our settings the next time it is launched.

Color theme

Select a theme color. You can choose whether you want to use the application in a **dark** or **light** style. Click the Save button and the application will immediately set the desired style.

Swipe enable

You can quickly change or delete an icon by sliding the control icons on the home screen. This sliding can be disabled, in which case you can change or delete them in the tools menu.

Language

By default, the application language is displayed according to the settings specified during registration, which can be changed here from time to time.

Cloud Status Refresh

On the control panel, we can enable feedback of the current status recorded on the server on the control buttons.

Order

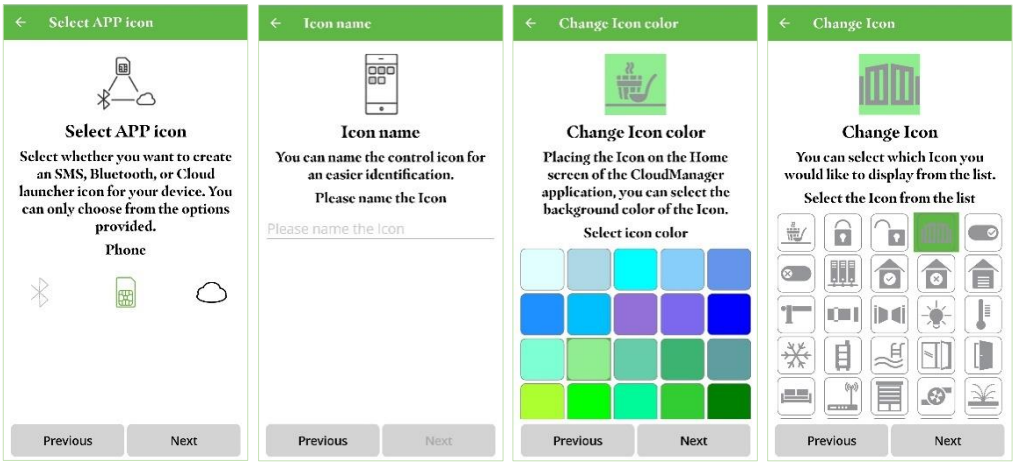
From the options offered, you can set the order in which tools and icons appear.

Help / About

It contains the current version number of the application, the date of creation, and a link to the website www.ascloudmanager.com.

Create SIM icon

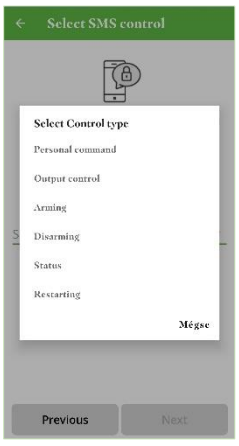
Click the Create icon menu item. After pressing the "+" button, select the SIM icon, then click "Next" and enter the name of the control icon. In the next step, set the background color of the control icon. Click "Next" again and select the icon you want to display from the list.



Depending on the device, select the output and control type.

The control type can be:

- **Custom command**
  For SMS control, you can enter any SMS command required to control the output of your SMS-controlled module. This creates a control icon on the Control Panel. When you tap the icon, your mobile device opens the SMS sending interface, where you can send the custom command line.



- **Output control**
  output control setting defined in the device

- **Arming / Disarming**
  Can be used to arm or disarm the module when using alarm functions.

- **Status**
  Displays current information about the module.

- **Restart**
  Restarts the module, as if it had been switched off and on again.

Output control setting in the device



Depending on the device and expansion module, you can select from the available control types.

Control types:

ON, OFF, As configured (set in the device), Timed control (monostable)

After saving the settings, the control icon appears on the Control Panel. When you press the control icon, the SMS command appears ready to send; after sending it to the device, the command is executed.

WEB - ASCloud Manager description

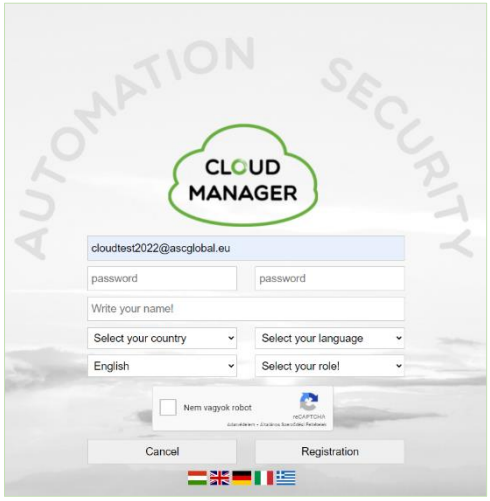
The ProLine 4G Cloud module can also be accessed and controlled via the website www.ascloudmanager.com. The web interface can be accessed with the e-mail/password pair provided in the mobile application.

IMPORTANT!

For cloud programming, it is best to choose a time when the possibility of GSM call control is the lowest. During cloud reading/writing, if a GSM call is received, the module suspends the data connection tasks, and then resumes them after the GSM call. The expected time for this may vary depending on the signal strength provided by the antenna connected to the module and the quality of the data connection used on the SIM card. (30 seconds - 5 minutes).

Thanks to developments, it is now possible that when adding a control phone number, it is not necessary to wait for the entire 1000 control phone numbers to be written/read. If we know how many control numbers we want to save/read, then using a block one larger than that, when stopping it, the data will be written/read anyway, so there is no need to wait for the entire data file. This significantly shortens the time spent using this.

Devices registration on ASCloud Manager website

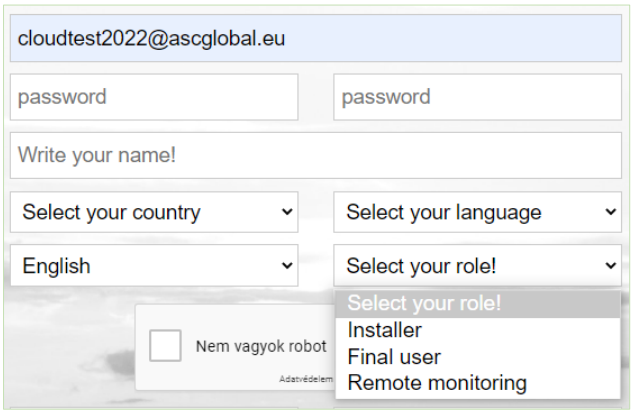


Create a user account on www.ascloudmanager.com website.

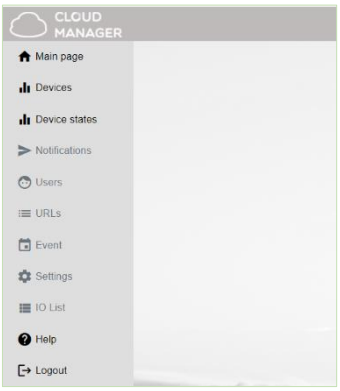
- Enter an email address to log in
- Enter the password that you want to use for the e-mail
- Confirm the password again

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.

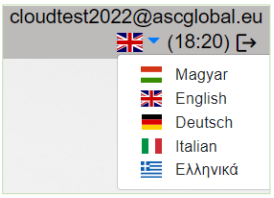


The page will automatically log out after 20 minutes of inactivity. You can see the current time in the upper right corner of the screen.



Select language

You can change the page language in the drop-down menu. The page language can also be changed after logging in. The website is currently available in 5 languages, and additional languages are being added.

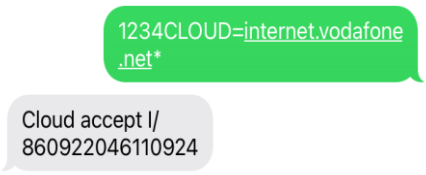


Create your first cloud connection

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.

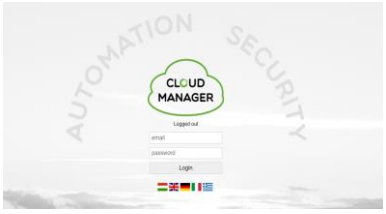
NOTE! Make sure that the inserted SIM card has an active GPRS connection and enough balance to send any SMS. Make sure the PIN code request is turned OFF.

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.)



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:



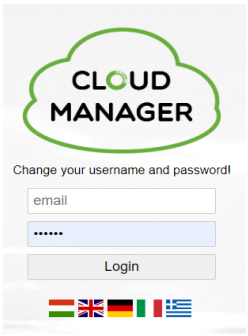


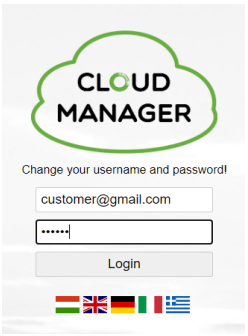
E-mail: **<IMEI>@gsm0.eu** e.g.: 860922046110924@gsm0.eu

Password: **<IMEI>** e.g.: 860922046110924

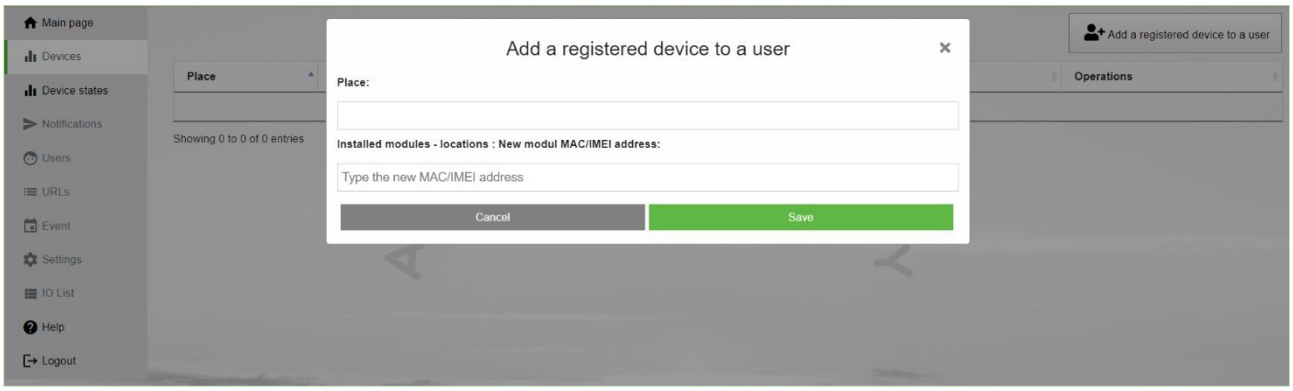
Enter your login **email address** and **password** to register the device.

After successful registration, our GSM module is available in ASC-loud Manager.



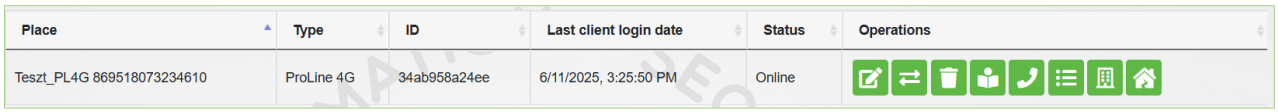


Add registered device



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.



Device status



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

Green indicates the cloud connection status of our registered device.



Green indicates the idle state. Moving the cursor over it 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.

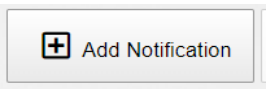




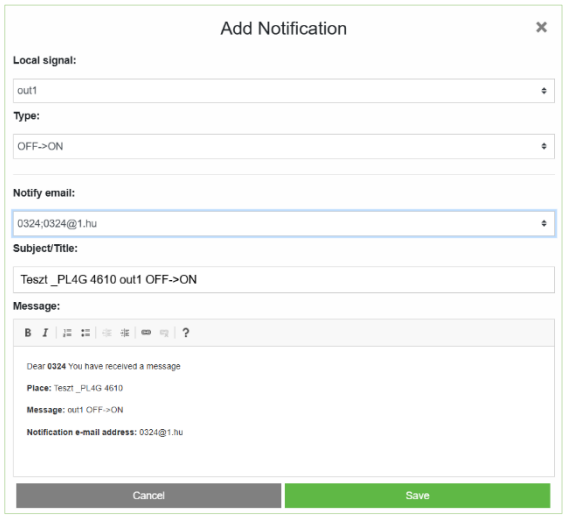


Notifications

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.



Push the „Add notification” button



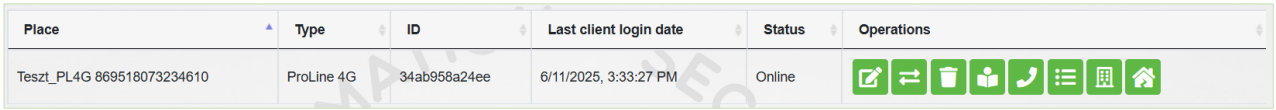
Local signal
You can select the output or input of the module depending on which one changes you want to be notified about.

Under Type, 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.

Login screen



After logging in, a list of modules corresponding to the authorization is displayed with some basic data. You can change the language setting of the page in a drop-down menu. The language of the page can also be changed after logging in.

Operations



1. 2. 3. 4. 5. 6. 7. 8.

1. Setting the device name
2. Device replacement
3. Delete device
4. Settings
5. Control phone numbers
6. Event log (GSM module)
7. Zone names
8. Contact ID conversion to SMS

1. **Setting the device name**
Changing the device name allows for easier identification if you have multiple devices.

2. **In case of device replacement or failure,** all settings and users are transferred to the new device

3. **By deleting a device,** all access will be removed. The module will not be available in the cloud.

4. **Settings** In this menu, except for one or two additional functions (recording a voice message, turning the voice menu on/off, etc.), all basic function settings of the module can be modified remotely; ProRead software is not required for programming.

5. **Control Phone Numbers** Up to 1000 control phone numbers can be programmed in the internal memory.

6. **Event log,** here we can read GSM calls and SMS messages stored **in the GSM module**, as well as additional connection information from the module, and then export/import them in Excel file format.

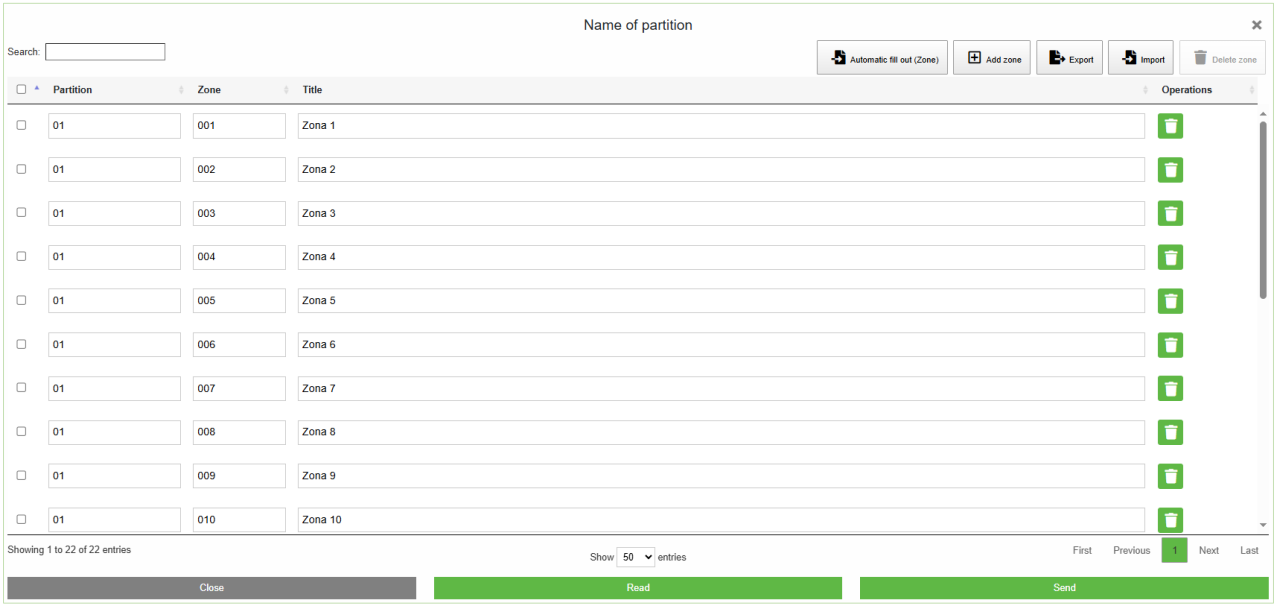
IMPORTANT! The list of output events controlled by e-mail address permissions in the application can be read and saved separately in the left-side menu bar. In this event log menu, we can list the Internet user activity. We can also save our event log as an XLS file here.

7. **Zone names**

We can designate and create zones based on events retrieved from the alarm center.

8. Contact ID conversion to SMS

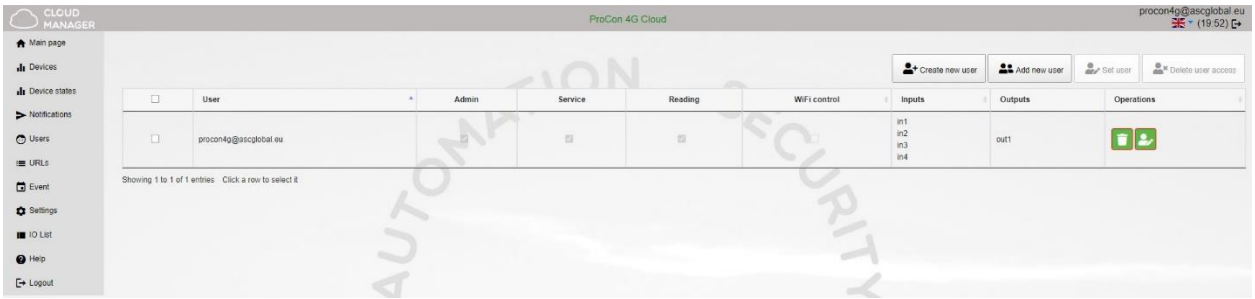
It is possible to convert Contact ID codes sent by the alarm control panel into SMS messages. The resulting SMS is easier for users to interpret. You can assign a new report to any event code and zone/partition code, and even add completely new CID codes.



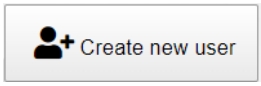
The minimum required for operation is to load the basic code table. It does not work with an empty table!
After selecting the event, you can select the phone numbers to be notified with a simple selection.
If you want to assign all events to one phone number, this can also be done with a selection. To use this function, the alarm center must dial "5555" or "5555+phone number"

Add an managing users

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



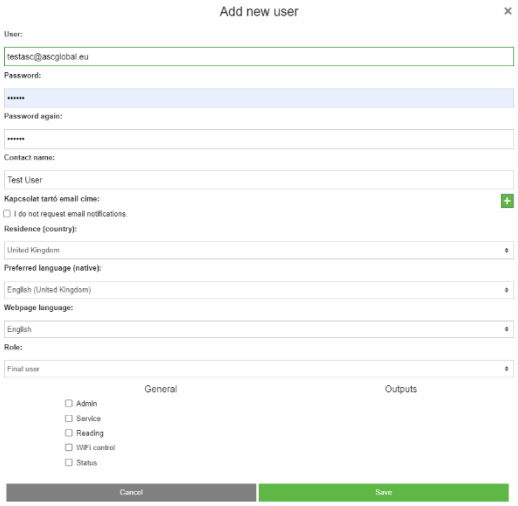
NOTES!
If you delete this email address from the list of users, we will not see the device the next time you log in!
If no users are saved to the device, the device will be automatically deleted from the database in a few days.
You can assign users to your device by entering a user email and password, 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 ProLine 4G Cloud GSM module with privileges e-mail address.

Create new user

To create a new user, enter the e-mail address that should receive status change notifications. You can enable or restrict notifications. You can also specify the login language, so all users can manage the device easily and conveniently.



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

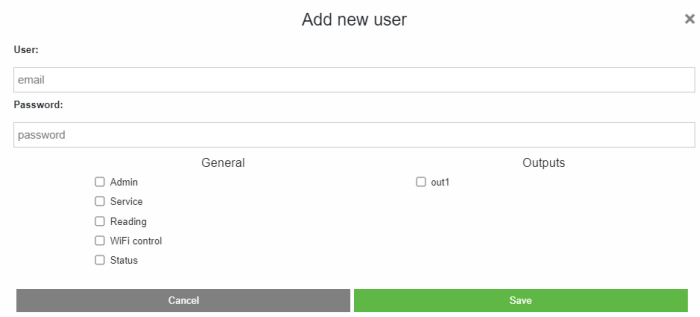
Preferred language (native): Select your native language

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 (End user, Installer)

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

Add more users



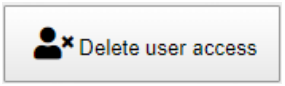
User: new user email address
Password: new user login password
Admin: Administrator access
You have all permissions except to delete the user who created the permission.
Service: Reading permission, allows access to service data related to the operation of the module.
Reading: Reading permission
WIFI 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

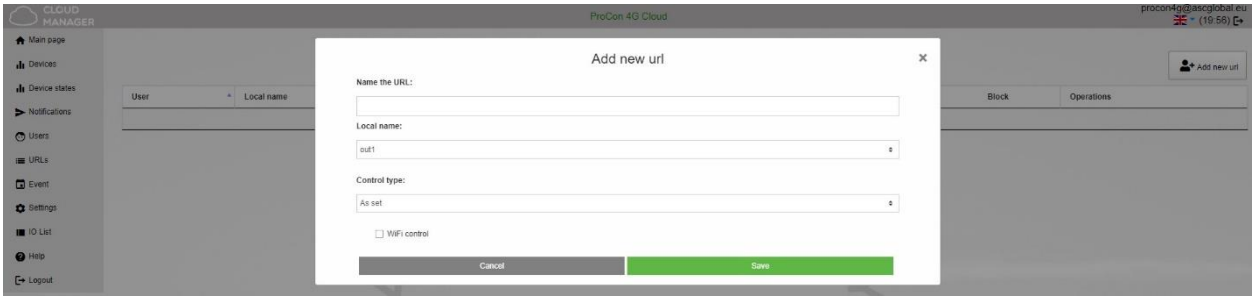


By clicking on the "Set user" button, all user data can be changed. You can change your own or other users' login passwords. If you no longer need access, you can delete it.



NOTE!

Users can be deleted in the same way they are created. Pay special attention when deleting the e-mail address created as admin from the user list: after deletion, the device will no longer be visible at the next login. 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 Wi-Fi 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.

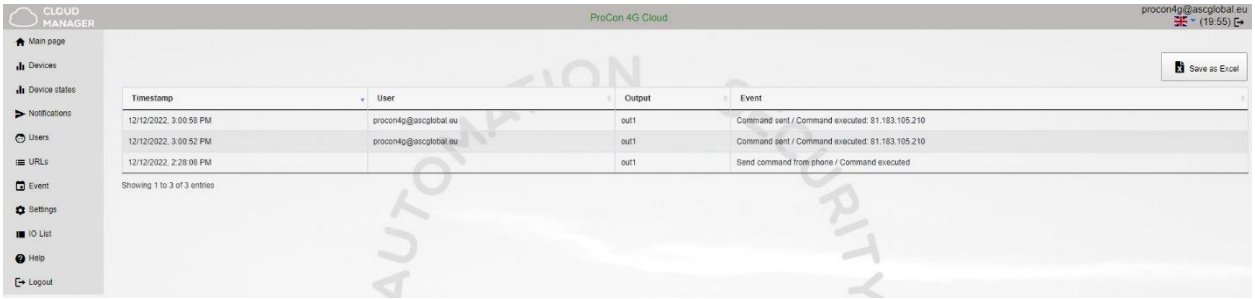
Drag to the screen with the left mouse button and the URL will already operate the device connected to the output.



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.



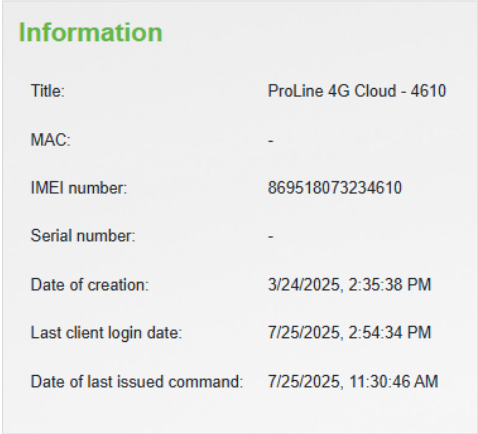
We can list when and which user controlled the output. You can save the event log to an Excel file.

Settings

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

Information

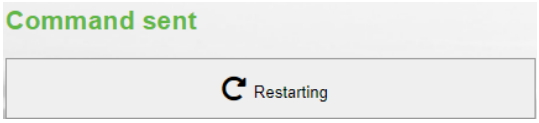
In this menu you will receive information about your device depending on your authorization



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

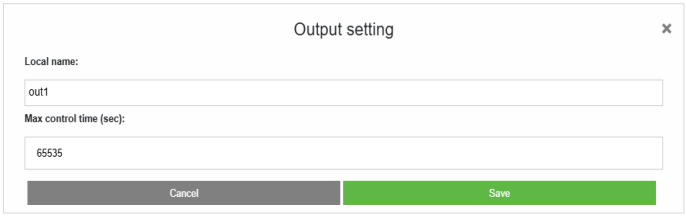
Command send

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



IO List

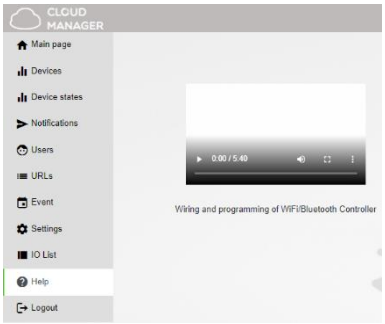
In the IO list we can change the output and input names, we can control the output and we can specify the output opening time in seconds. Maximum time that can be set: 65,535 seconds. This menu item can be used to control multi-output devices and IP modules, but of course it can also be used to configure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



Help

Help is available in the form of a video.

Our videos are constantly being updated and expanded.



Data management

Data provided in the application is managed for the operation of the system. Users access the system with an e-mail address and password, so these data are required for use. Users should provide personal data only after reviewing and accepting the applicable data management information and terms of use.
The purpose of data management is to provide access to the system and thus user authorization for users who wish to use the system.
The system stores only the e-mail address in a readable form, the password and installation location are encrypted on the manufacturer's server.
Only the installation location is stored in the module's memory of personal data.
Personal data is not accessible by third parties except the manufacturer and installer, who are obliged to handle personal data confidentially in accordance with the relevant legal regulations and may not pass them on to third parties.

Manufacturer's Liability

The Manufacturer accepts liability for the operation and use of the system, including the intended use of hardware and software, only to the extent required by applicable law.
The Manufacturer assumes no liability for damages resulting from:
the user intentionally, directly or indirectly transferring

Programming with SMS commands

The module can also be programmed using an SMS command. The text of the SMS must always start with entering the security code, which you can change at any time. The commands can be concatenated, but the maximum length of the message cannot exceed 160 characters.
The module (if possible) will send a reply SMS after each message. If you do not like this, use the NOSMS command or the RECALL command, after which the module will call to indicate successful programming.
Criteria for commands:

- cannot contain accented characters
- all characters of the command are uppercase
- commands must be separated by a space
- you can also use # instead of the equals sign.
- messages must always start with the security code, after which the first command comes immediately without a space (the second command must be preceded by a space).
- the SMS text command must always be closed with a * 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=2301200922** Date will be: 2023.01.20 09:22
save telephone number for calleridentification	ADD				telephone number (with +36)	**1234ADD=+36305551234**
removing telephone number from caller number identifi-cation list	DEL				telephone number (with +36)	**1234DEL=+36305551234**
saving/editing tele-phone number for notification	TEL		telephone ordinal number from 1 to 8		telephone number (with +36)	**1234TEL1=+36305551234**
input setup	INPUT		input ordinal num-ber		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 revertion 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	**1234INPUT1=INC00100000** First input is: -24 h normal -Normally Closed - 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		output serial		iiiiirhn iiii→if 00000 then it will be bi-stable, otherwise it is the duration of control in seconds r→ controlled when larm h→controlled when call n→=1→ without caller identification	**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
Life sign sending	LIFETEST				ccccssttttttt ccc→cycle time, how often to send message (ex.:030days) ss→on the given day at what time (ex.: at 12 o'clock) tttttttt→ which one telephone number to choose from the 8 ex.: 00100000→3rd phone number, 01010000→2nd and 4th etc.)	**1234LIFETEST=0071100100100** -in 7 days -at 11 a.m. -sending to 3rd and 6th telephone number
Setting up notification sending	SEND		1:1st input 2.: 2nd input 3.: 3rd input 4.: 4th input		sssssssssvvvvvvvv ssssssss→ selecting phone numbers for SMS notification (0 or 1)	**1234SEND2=0010000011110000**
			9.: tamper 10.: power source monitor 12.: life sign		vvvvvvvv→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		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 LIFETEST=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