WiFi/Bluetooth Programmer

Installation and user's guide

Contents

Device description

The Bluetooth/Wifi adapter allows to accessing remotely the GSM modules via internet with the ProRead software and on www.ascloudmanager.hu website after creating a simple e-mail account. If the adapter is conneced to the ProCon GSM or to the InterCom GSM, the black cable on the device must be connected to one of the COM connectors of the GSM device. The cable does not have to be connected at the other GSM modules. Beside of remote programming, the Bluetooth/Wifi adapter allows the control of the 1st relay output of the ProCon with the WIFI/BT Manager android application. The parameters of the programmer can be set in the ProRead.

Compatible GSM modules:

- ProCon GSM
- EasyCon GSM
- InterCom GSM
- ProLine GSM

Configuring the device

The Wifi/Bluetooth adapter has to be connected to the serial port of the GSM module. If the adapter is connected to the ProCon GSM or to the InterCom GSM, the black cable on the device must be connected to one of the COM connectors of the GSM device. The cable does not have to be connected at the other GSM modules

Pairing

Select the adapter (Programmer) in the **Add a device** window. Afterwards, click on the **Next** button.
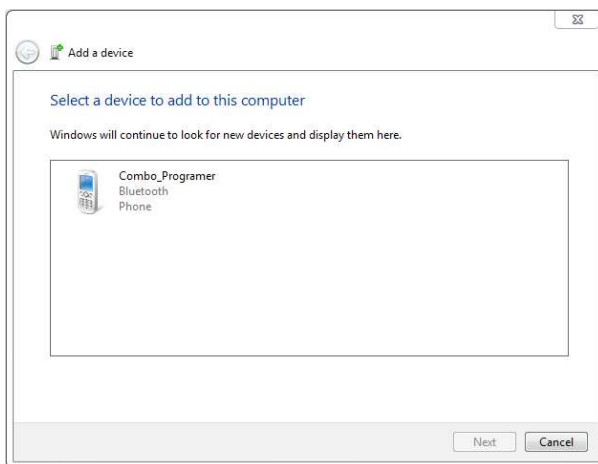
Select the **Enter the device's pairing code** option, and type   the defaut pairing code which is 1234. Then click **Next**.
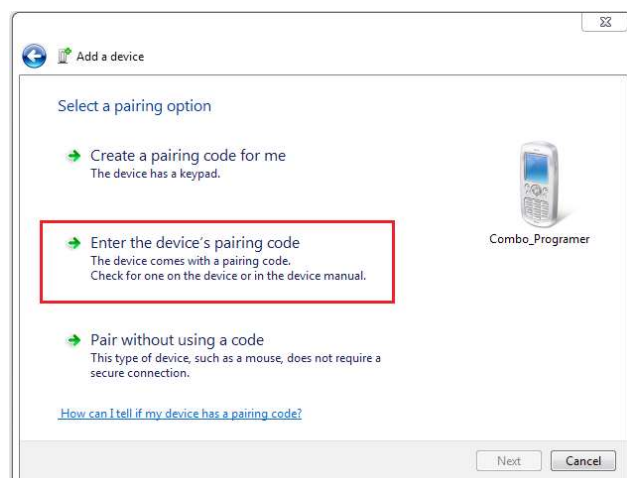
In some cases, it could occur that an error message pops-up during pairing. When it happens, you have to try again the pairing process. At the third time, the adapter can be paired successfully with the PC.
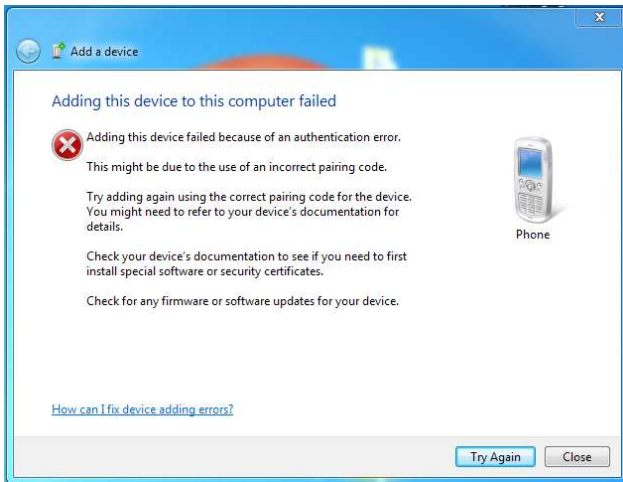
Configurating Wifi settings in the ProRead

Click on the *Wifi set* buton.

Give the necessary data in the *Wifi set* window:

1. Select the lower number COM port in the scroll-down menu.

2. Click on the *Refresh* button.

3. Choose the Wifi network to which you would like to connect in the *Wifi SSID* menu.

4. Give the password of the selected Wifi network in the *Wifi Password* field.

5. Click on the ***creating new user*** button to create a user and to give the user's data:

User_Email: email adress
User_Password: email password
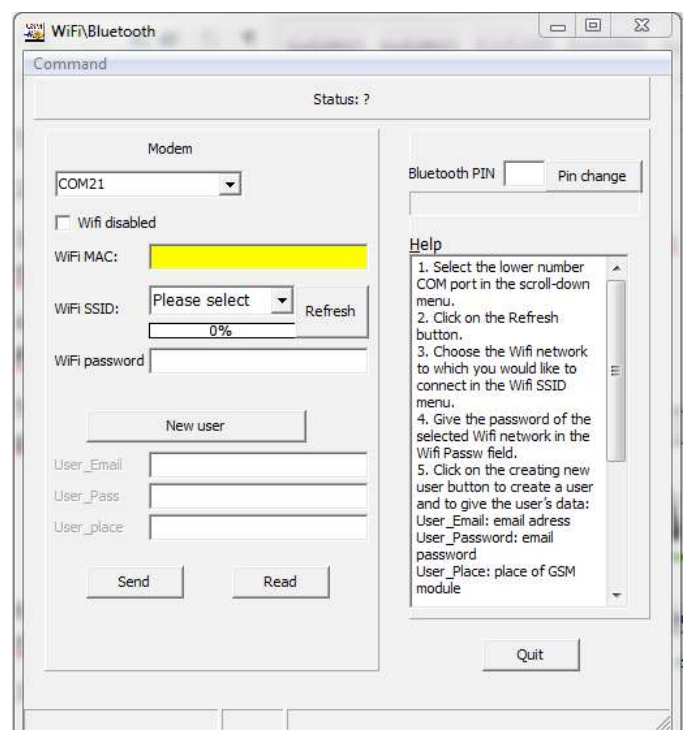**User_Place:** place of GSM module

6. Click on the ***Send*** button and wait till the module connects to the network.

7. Click on the ***Exit*** button.

In the ***Bluetooth PIN*** field the default pairing code can be modified (1234). To set a new code, type the new code into the ***Bluetooth PIN*** field and click onto the ***PIN Change*** button.

Connecting to the module via internet

Select the internet option, and type the password in the pop-up window. In the ***Place*** drop-down menu opt for the previously set place. Afterwards, click on the ***Open*** button to connect. By using the Old Entry button, the GSM module automatically fill the previously configurated data. Hence, it is not necessary to fill it in.

Indications, Functions

Push button:

- Short push - restarting the module
- Long push – deleting the settings (PIN code, bluetooth connections, WiFi connection)

LEDs:

Blue - Bluetooth connection/operation
Green - WIFI connection/operation
Red - Push connection/operation
When powering on the device the blue, green and red LEDs blink together, then the LEDs blink in a row one after another. If the WIFI is not configured, the LEDs blink 4 times together in a row then only the blue LED blinks. If the blue

LED blinks the module is available via bluetooth for 10 minutes. After the 10 minutes expired, only the paired devices have access to the module. The pairing and configuration of the WIFI settings have to be done in this 10 minutes.

After configuration, the module restarts automatically and it tries to connect to the set WIFI network.

The controller makes 20 attempts to connect to the set network. If it is sucessfull, the green LED lights. Afterwards, the push system connects that is indicated by the red LED. Eventually, the bluetooth will be turned on hat is indicated by the blinking blue LED. After 10 minutes all LEDs are switched off. The LEDs will work only during the communication. The blue LED will light constantly in case of bluetooth connection.

If the connection to the WIFI fails, the module will restart. Therefore, there is a possibility to change the settings.

Creating shortcut with the WiFi/BT Manager Android Application

Application description

The WiFi/BT Manager application allows creating a shortcut. The output of the ProCon GSM can be managed by taping on the shortcut via internet if the WiFi/Bluetooth Programmer is connected to the GSM modul. The program requires permission for storage to download the user's guide, and for the bluetooth usage the location (from android 6.0).
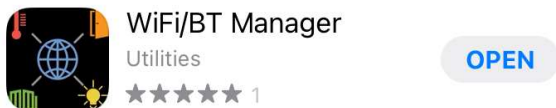
The Application can be downloaded for free from the Play store. We recommend to use the GSM_prg keyword to find it.
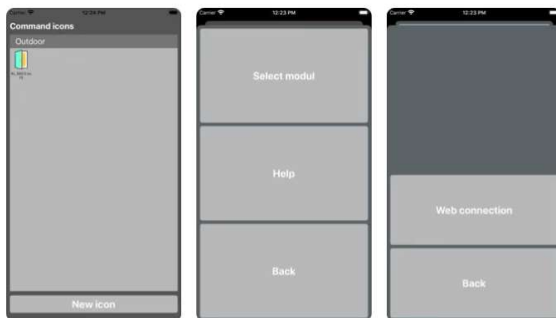
Select Modul

After starting the program, you need to select the module you want to set or control. In the main menu you have to choose from three options:

1. New Bluetotth

2. Paired Bluetooth

3. Web connection

The module can be selected from the list that appears after the above selection. You can then set up Internet access, change the setting, create an icon for control, or access the service function.
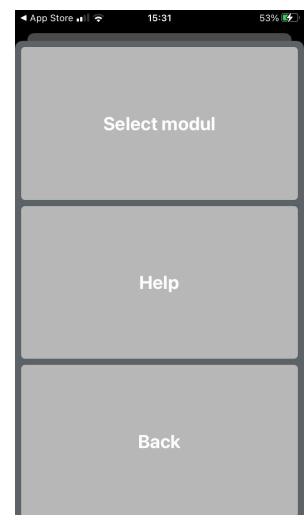
New Bluetooth

In this case, the phone starts searching for available Wifi Bluetooth devices and returns a list of modules that are not paired yet with the phone. You can perform a Bluetooth pairing by pressing an item in the list. The module PIN is 1234 by default, which can be changed later.

Paired Bluetooth

In this case, the phone lists the paired Bluetooth devices. Module can be selected from the list.

Web connection

After entering the appropriate e-mail and password (a previously registered e-mail address), a list of the available modules will be displayed. If there is only a module for that user, the Create Icon tab will appear immediately. *Internet connection control icon can be created here only!*

Modul settings

The configuration of the module is necessary if we would like to control via internet. For remote control, we have to give the name of the WIFI network (SSID), password and an email/password to access the data base. The place of installation helps to select the device in the web connection list. What's more, this is the default name when creating an icon. By the assigning if the **wifi turning on** field, the phone queries the available Wifi networks and signal levels. Afterwards, the wifi network can be chosen from a list of available networks. Then, the necessary data has to be filled out. For launching a new search, the field has to be reassigned.

Wifi Network Name SSID: name of the wifi network.

Password: the password of the chosen wifi network.

Email: user email address.

Password: password for the email address.

After filling in the data, you can save the settings with the right arrow at the top.

Create a control icon

Enter the name of the icon, the duration of the control, and then the type of connection. In case of an Internet connection, the e-mail and password pairing set on the server during installation or afterwards is required. Then you have to select the image of the icon, clicking on the button will create a control icon on the screen of our mobile device in the first empty position. You can move it at any time by long-clicking the icon.
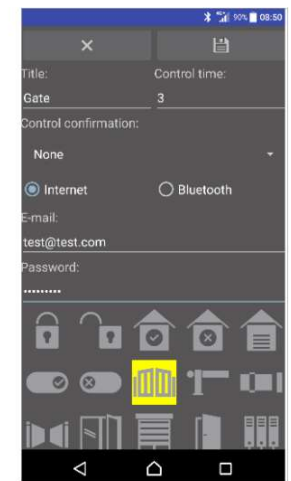
Security settings

The required bluetooth PIN code and WiFi network settings can be changed in this menu.

After changing the PIN code, the previous bluetooth connections will be deleted from the module. Each bluetooth connection will ask for a new PIN code. By pressing WiFi search, the phone will query the WiFi networks and signal strengths visible by the module. After entering the appropriate data, the new settings can be sent to the module with the right arrow in the upper corner of the screen. In both cases, the module restarts.

Service

When choosing this function, the application tries to connect to the module via bluetooth connection. In case of successfull connection, the module states and settings will be visible. To be able to reach all functions it is necessary to swipe at the top of the screen.

States:

> **Wifi:** it shows whether the Wifi option is switched on
>
> **Wifi connect:** it shows whether the module is connected to the Wifi network
>
> **Server connect:** it shows whether the module is connected to the server
>
> **Push ready:** it shows whether the module is connected to the push server
>
> **WiFi set good:** it shows whether the currently used Wifi setting works or not

During a bluetooth connection, the WiFi connection is lost. Therefore, the displayed statuses only contain data that can be analyzed at the beginning of the bluetooth connection.

All functions can be accessed by scrolling left in the top menu bar.

- **TEST** - output control
- **RSSI** - current signal level (it is a negative number) if the Wifi signal lost it is empty
- **SSID** - available Wifi networks
- **WIFI –** Wifi networks, priority, signal in %
- **VISIBILITY ON/OFF** - Turning on/off the bluetooth visibility to connect the module to a new phone.
- **RESTART** – restarting the module
- **WIFI ON/OFF** - turning on/off Wifi

The „X" button steps back a page or by pushing it long, the application can be closed.

Control via internet

If there is internet connection, by clicking on the control icon (it can be mobile internet or Wifi), the phone will connect to the server, which sends the command to the controller. The phone indicates the command sending. If it is succesfull, we will get the *command executed* message. If we got the *command stored* message, the controller cannot be reached by push message. Therefore, it receives the command in one minute approximately. If we got the *module is not available* message, the controller lost the Wifi network.

Control via bluetooth

By clicking on the control icon, the bluetooth turns on. If the mobile phone is inside the range of the bluetooth, it connects to the module, and the command will be executed. If the control is succesfull, we got the command executed message.

Create WEB Icon

Click the "WEB connection" button. Log in with your already registered email address and password. Select the device you want to control from the list. Give the icon a name and select the control output.
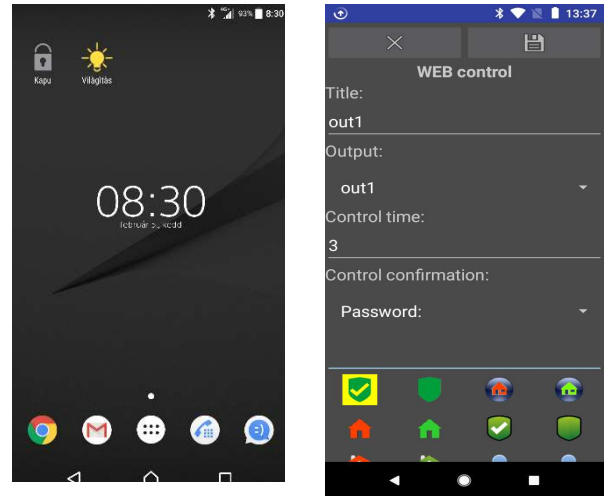

After setting the control time, we have the option to confirm the control, which will allow us to activate the output after a double check. For example, in the case of a device carried in a pocket, we accidentally press to open a front door or gate that is preferred for our protection, in which case we can prevent accidental output activation by pressing an extra button or a password. Then you have to select the image of the icon, clicking on the button will create a control icon on the screen of our mobile device in the first empty position. You can move it at any time by long-clicking the icon.

WEB - ASCloud Manager description

The cloud compatible GSM module can be accessed and controlled at www.ascloudmanager.hu website after registration. This service is also available with "non-cloudy" GSM modules by connecting an Wifi / Bt Programmer.

(Please visit our Wifi / Bt Programmer user guide.)

When you log in, will appear all of registered and connected devices on the main page. The names of the devices what are online can be seen of green color, and the offline devices color will seen red.
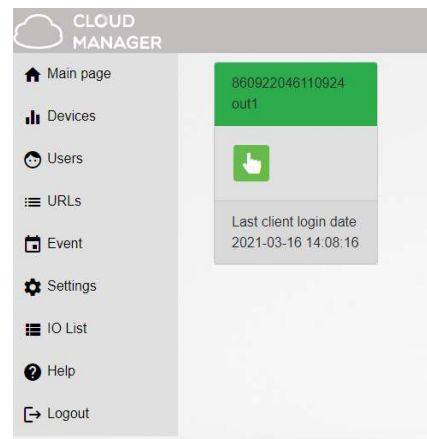
Clicking the Tools menu will display a list of modules corresponding to the authorization with some basic information.
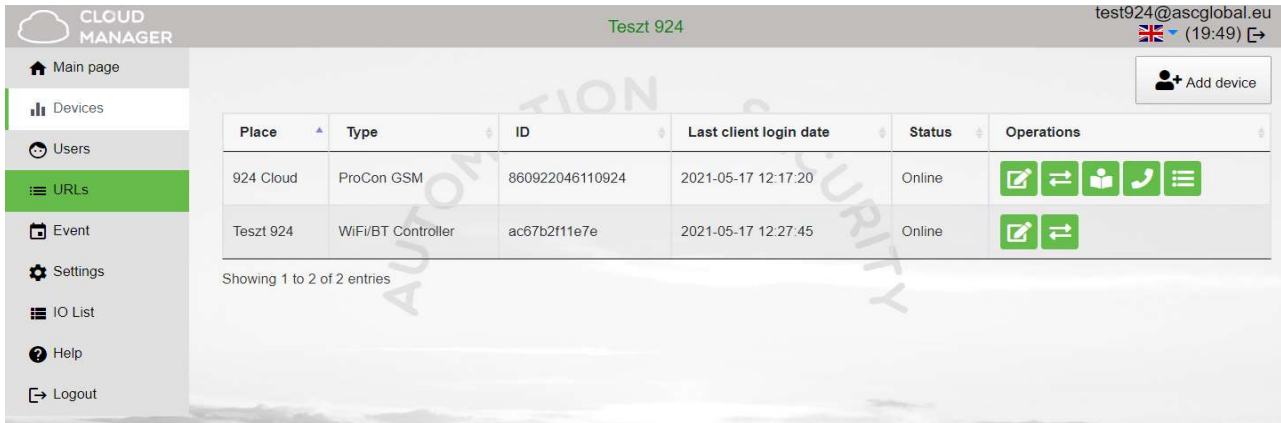

Setting languages of the page in the drop-down menu. Can be change the language of the page after logging too. You can add new devices in this interface with new IMEI number, that is not necessary to re-register for that.

You can name your device for easier identification:
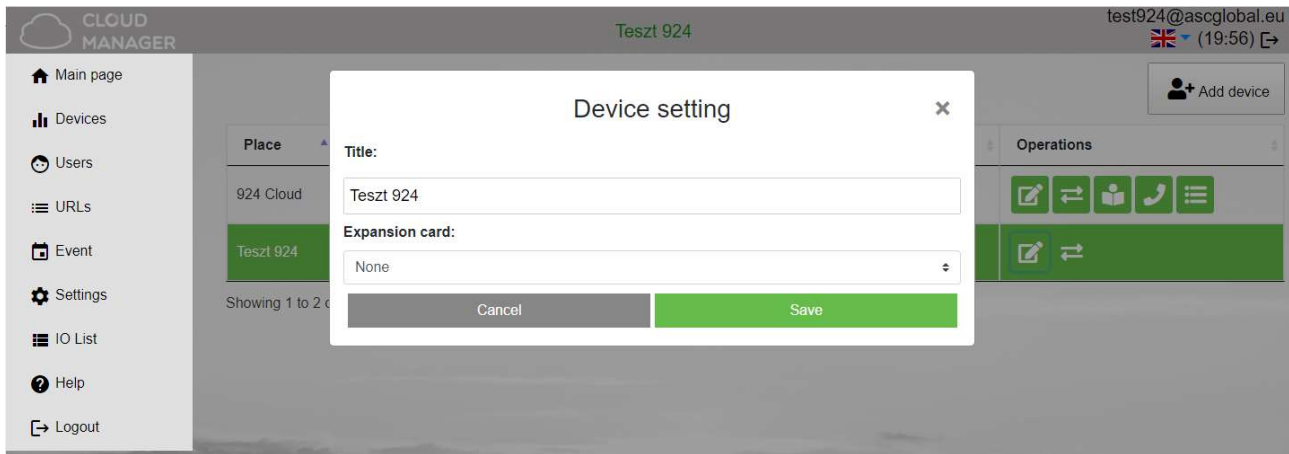
Make users to your device by user email and password, give different privileges to output control. Depending on the device, the control of 1 to 4 outputs can be controlled.
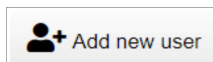
The number of users is unlimited, give access as you you would like to by entering email address. All of permitted user can enjoy the benefits of mobile output control.

User access

We can make and edit different user access for each users. You can change your password and if you no longer want to use access, simply delete it with the appropriate symbol.

Set user ✕

User:

test924@ascglobal.eu

General   Outputs

☑ Admin   ☑ out1
☑ Service
☑ Reading
☐ WiFi control

Cancel   Save

Admin: Admin privileges.

All permissions are available except for deleting the user who created the access.

Service: Provides insight into service data related to module operation.

Reading: All of details are read only.

WIFI limit: Here we can define what area of use we provide to our user. If selected, the user can only control the output within a local WIFI network.

out1: Assign output to control *Other selectable outputs are displayed here with an output expansion module at ProCon GSM modules.*

Change Password ✕

New password:

New password again:

Cancel   Save

User password change

We can change our own or our user's login passwords.

Add new url ✕

Name the URL:

Local name:

out1

Control time:

3

☐ WiFi control

Cancel   Save

Add URL control icon

Under the URL menu, you can create control icon for desktop PC with the Add new URL button function. Give your control icon name, enter an opening time in seconds. Here you can also specify whether to check the local WIFI availability for control. Drag it to your screen with the left mouse button and the URL will already operate and the device connected to the output. You can edit your existing URL connection. You can change the possibility of WIFI access, as well as prohibit its use. If you no longer want to use it, simply delete it with the appropriate symbol.

Event list

The modules listing user activity in the event log.

We can see when the output was activated.

This can be saved as an event log in an XLS file.

Log 2021-05-17 13:04:19

| Update | Delete |

Timestamp	WiFi	Server	Push	Event
2021-04-27 14:31:44	not OK	not OK	not OK	program start
2021-04-27 14:27:26	OK	OK	OK	push connect
2021-04-27 14:27:26	OK	not OK	not OK	server connect ready
2021-04-27 14:27:21	not OK	not OK	not OK	program start
2021-04-27 14:26:59	OK	OK	OK	push connect
2021-04-27 14:26:59	OK	not OK	not OK	server connect ready
2021-04-27 14:26:54	not OK	not OK	not OK	program start
2021-04-27 14:19:33	OK	not OK	OK	server connect ready
2021-04-27 14:19:32	OK	not OK	OK	push connect

Settings

Information

Depending on your authorization, you will receive information about your device in this menu item.

Name: The name of the device

ID: MAC / IMEI number

Version: The number of the current program

Date of creation: Date of registration

Last login date: Last login time

Date of last command issued: Date of last output control

WIFI Network (SSID) name:

The WIFI network where the device is available

IPv4: IP ID provided by a local service provider

Statistics

After the update, we will receive our latest daily statistics with the number of module restarts, connections and controls.

Wifi signal

One of the most spectacular user interfaces, where the device worked with a WIFI connection in daily details.

Command sent

You can turn the bluetooth and WIFi connection ON / OFF and restart the device.

The WIFI / Bt Controller automatically switches on the bluetooth connection for 15 minutes after switching on, so that it is enough to connect to a power supply for the first connection.

WIFI

You can see which WIFI network device you are connected to. You can also select a new network. You can specify which network you want to use with which priority and which you want to use first.
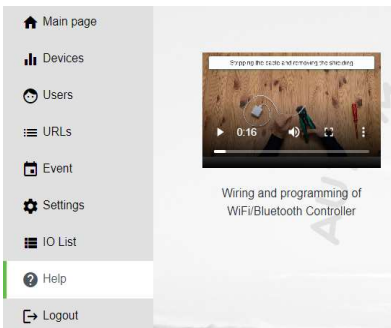
In **IO** menu you can view and set the output connection data. You can control your output with the finger icon.

Output setting	×

Local name:

out1

Max control time (sec):

250

| Cancel | Save |

♠ Main page	
▫ Devices	
☺ Users	
≡ URLs	Wiring and programming of WiFi/Bluetooth Controller
▫ Event	
✿ Settings	
≡ IO List	
❓ Help	
⟶ Logout	

Help

Get help in video form.

Our videos are constantly being updated and expanded.

GSM module editing operations

By clicking on the line of the displayed module, you can make individual settings and change control data.

Use this button to rename our module for easier identification. Eg: Futrinka street Gate

Use this button to copy all settings to another module. In this case, the module settings used so far will be overwritten one by one to the new module. *The old module will no longer be usable on this interface!*

Additional settings of Customer name, GSM phone number, GSM module name, installation address, phone numbers to be notified, inputs, outputs, alarm JAMMER function, arming / disarming notification, life signal   setting, voice call, time zones and remote monitoring signal data

Control phone numbers reading / writing

Read event log

Privacy policy

Handling the given data in the application.

The users can use the system with an email adress and password. Howbeit, it is necessary for operating the system. The contribution of the users to data handling, by giving their personal data directly or indirectly voluntarily, is considered to be given. The purpose of data handling is to ensure access to the system, and providing permission to use the system to the users who wish to use the system.

The only readable information that is stored by the system is the email adress. The password and the place of installing is encrypted on the manufacturer's server. In the module memory, only the place of installing stored as private data.

The private data are not accessible by third party, only by the installer and manufacturer who handle the private data confidentally according to the relevant legislation. In addition, they cannot share it with third party.

Responsibility of the manufacturer

The manufacturer takes responsability regarding the operating and usage of the system - including the intended use of the hardwer and software –according to the relevant legislations.

The manufactuer does not take responsability for damages that caused because :

- The user lost the control device, or the control device or the private data is stolen by which an unauthorized person is capable of accessing the system.
- the user chose an easy or easily hackable password

- The user gives the data - that necessary to use the system - on purpose in direct or indirect way, or the control device to third party