ASC Global
INTERNATIONAL



WiFi/Bluetooth Programmer



Programming and user guide

Version 2025.

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Operational description

WiFi/BT Programmer allows remote access to GSM/4G modules via the Internet using the ProRead software and by creating a simple e-mail account at www.ascloudmanager.hu. If the adapter is connected to the ProCon GSM Cloud, ProCon 4G Cloud, InterCom GSM or InterCom 4G module, the black wire on the device must be connected to the COM connector of the GSM module. For other GSM modules, the cable does not need to be connected. In addition to the remote programming option, the WiFi/Bluetooth Programmer allows you to control the relay output of the connected module using the Cloud Manager app for Android and iOS.

You can use the WiFi/BT Programmer to set up the following compatible GSM/4G modules using ProRead software or by visiting www.ascloudmanager.com:

- ProCon GSM Cloud
- ProCon 4G Cloud
- ProLine 4G Cloud
- ProLine 4G LAN Cloud
- EasyCon GSM
- InterCom GSM
- InterCom 4G

Device commissioning

The WiFi/BT Programmer must be connected to the serial connector of the GSM module. When connecting to a ProCon GSM Cloud, ProCon 4G Cloud, InterCom GSM or InterCom 4G module, the black wire on the device must be connected to one of the COM ports on the GSM module. For other GSM modules, the cable does not need to be connected.

Module signals and functions

Push button:

- short push (approx. 0.5 s) - restart the module
- long press (5 sec) - delete the settings of the gadget (PIN code, Bluetooth connections, WiFi connection)

LEDs:

Blue **Bluetooth** connection/operation

Green **WIFI** connection/operation

Red **Push** connection/operation

When the module is switched on, the blue, green and red LEDs flash simultaneously, then one after the other as a running light. If WiFi is not set, the light will run 4 times, then the blue will stay on. When the blue starts flashing, the module is accessible via Bluetooth. This lasts for 15 minutes. After that, only paired devices can access the module. Briefly pressing the button on the device will reboot it and make it available again for 15 minutes.

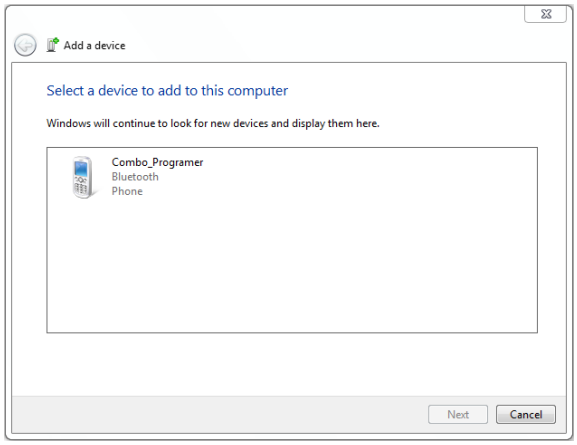
During these 15 minutes, the module must be paired with the PC and the settings configured in ProRead.

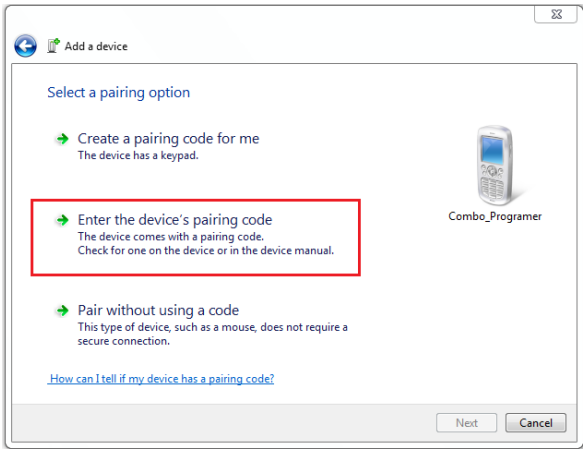
Once set up, the gadget will automatically reboot and try to connect to the WiFi network you have set up. The module will try to connect to the configured network 20 times. If successful, the green LED will light up. Then the push system will connect. If this is also successful, the red LED will also light up. Finally, Bluetooth is switched on. If available, the blue LED will flash. After 15 minutes, all LEDs will turn off and will only flash for the duration of the communication and the blue LED will stay on when Bluetooth is active.

If the module fails to connect to the WiFi network, the gadget will reboot as if no WiFi connection is configured. This allows you to change the settings.

Pairing with PC

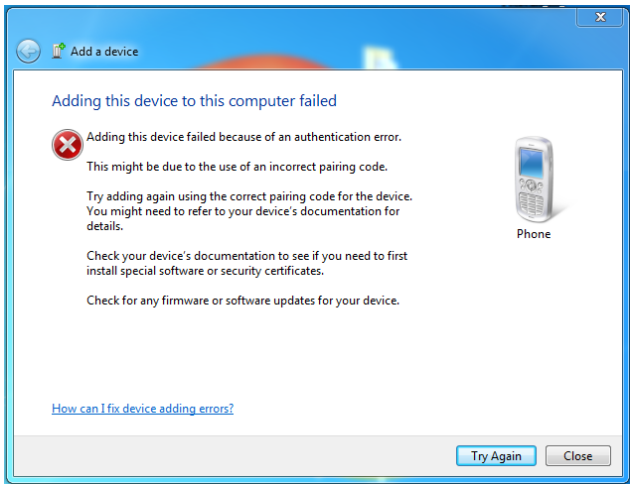
After turning on the module, wait until the blue LED starts blinking. The module is then available via Bluetooth. Select the adapter (WiFi/BT Programmer) in the Bluetooth devices window and click ***Next***.





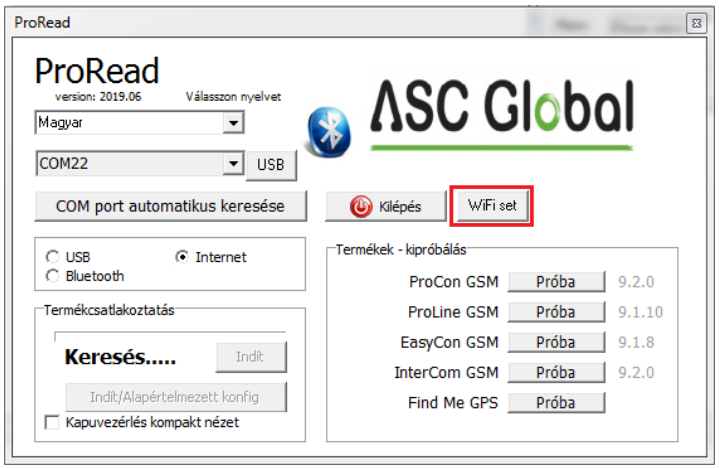
Then select the option to ***enter the device pairing code.*** Then enter the default pairing code (1234).

On older Windows operating systems, you may get an error message when pairing the adapter. In this case, you will need to retry the pairing process. The third time, the programmer can be successfully paired with the PC.



Configure WiFi settings in ProRead

Click on the ***WiFi set*** button.

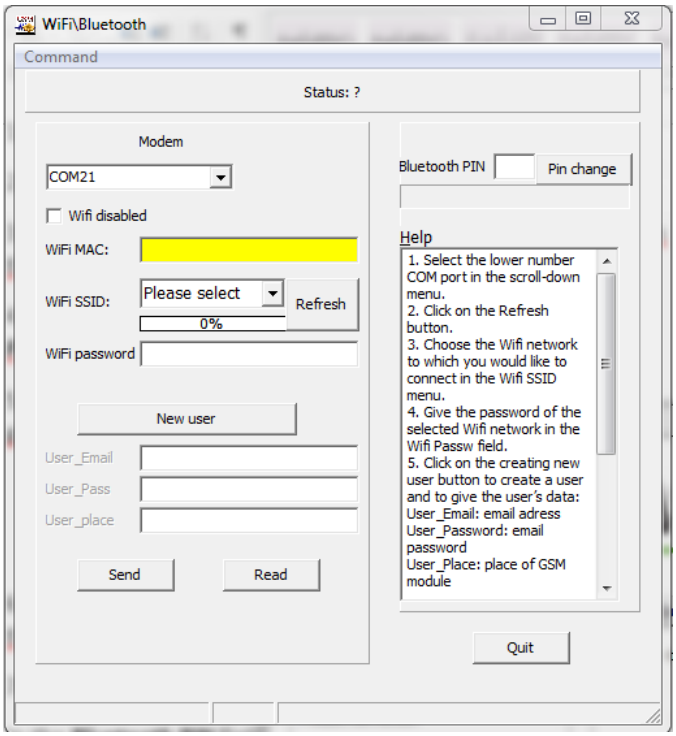


Enter the necessary information in the WiFi set window:

1. Select the lowest COM port number from the top drop-down menu
2. Click on the ***Refresh*** button
3. After the update, in the ***WiFi SSID*** drop-down menu, select the WiFi network you want to connect to
4. In the ***WiFi Passw*** field, enter the password of the selected WiFi network
5. Click on the ***Creating new user*** button to add a user, then enter the user details:

- **User_Email:** email address
- **User_Passw:** ASCloud Manager account password
- **User_Place:** GSM module location

6. Click ***Send*** and wait for the module to connect to the WiFi network.
7. Click on the ***Exit*** button.



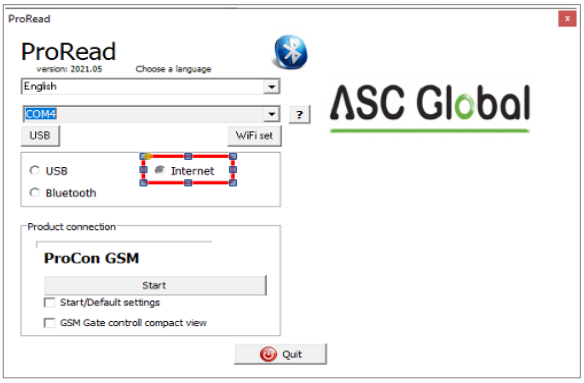
In the ***Bluetooth PIN*** field, you can change the default pairing code (1234). To change it, enter the new code in the ***Bluetooth PIN*** field and click on the ***PIN Change*** button.

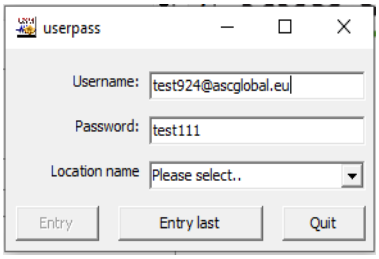
Connection to GSM module with ProRead internet connection (WiFi)

This feature is only recommended when connected to a WiFi network! If you are using a SIM data connection, we recommend programming on www.ascloudmanager.com.

The connection uses the data network associated with the SIM card, so the connection requires an active mobile data service, sufficient balance and adequate mobile network coverage from the service provider.

Select the ***internet*** option and in the pop-up window enter the email address and password you have already registered, then in the ***Place*** drop-down menu select the module you want to access. Then click on the ***Open*** button to connect. The ***Old Entry*** button will automatically load the GSM module with the previously configured settings so you do not need to fill them in.





In ProRead, all settings can be freely configured in the same way as with a USB ECO cable connection.

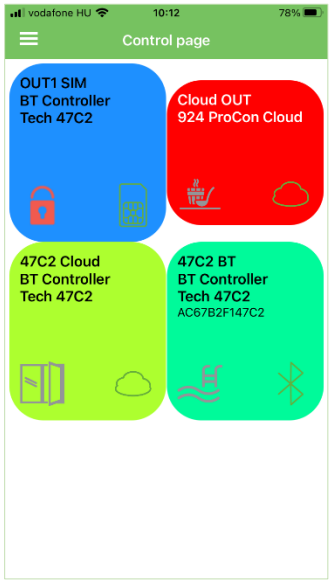
Setting up WiFi/BT Programmer with Cloud Manager

IMPORTANT! Before adding a device, make sure that the device you want to pair has already been paired with your mobile device. Check the Bluetooth settings on your mobile device for paired devices.

If the device was already paired, please remove it with the "forget device" command.

Find and download the **Cloud Manager** app from the App Store or Play Store to your iOS or Android device.

Control panel



When you open Cloud Manager, the control panel displays the control buttons for all the devices that have been connected **via Bluetooth** or **Cloud** so far.

By holding your finger on the button, you can drag it left and right.

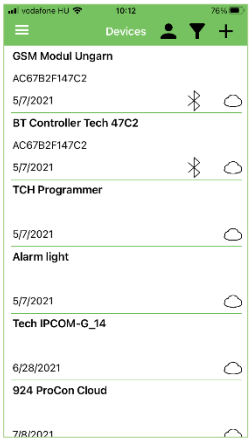
Drag to the right to edit the icon, drag to **the left to** delete it.



Edit Delete

Sliding permit

Slide the control icons to edit the icon, which you can toggle ON/OFF in the settings menu.



Devices

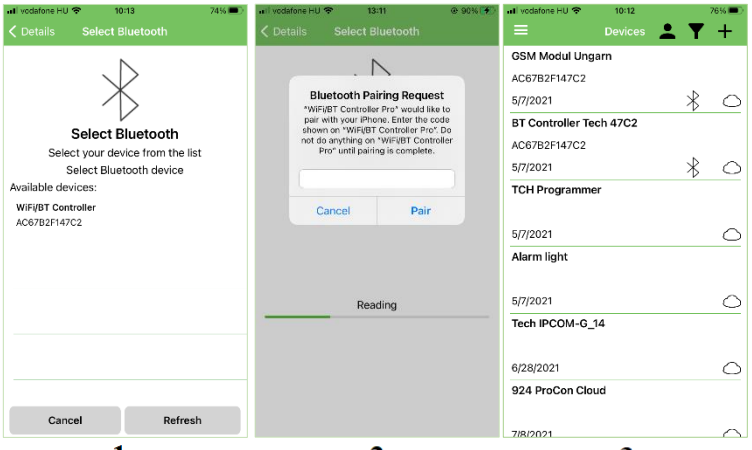
In the Devices menu you will find the devices you have already registered.

In the device row, a **Bluetooth or Cloud** connection icon indicates the connection method. A green colour indicates an active connection. If both are available, both will be green.

If you do not have a registered device, you can add a new device by clicking on the "+" button.

In the top menu, you can enter your email address and filter the list.

Set up Bluetooth connection



1. 2. 3.

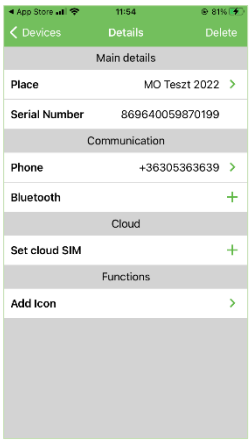
The WiFi/BT Programmer automatically turns on its Bluetooth interface for 15 minutes every time you connect the power and is ready to pair. Make sure that the blue LED on the device flashes continuously.

Select the Bluetooth connection mode and choose the available Bluetooth device from the list (Figure 1), then press the Save button to continue.

Enter the password for pairing, which is **1234 by default** (Figure 2)

Click Save and the device is visible in the app (Figure 3).

Device settings



In the Devices menu, click on the row of the programmed device to get a detailed insight into the operational settings and the connection status of the module.

Depending on the version number and type of our module, the menu items may vary!

Basic data

Location

You can see the name of the device that you have specified, which you can change at any time.

Type

Name and type of the connected device.

Communication

Bluetooth

The device type and MAC number of the device are displayed.

WiFi network

The name of the current WiFi network to which the module is connected. If no WiFi network has been selected yet, you will see an empty field here. You can update it by entering the menu item.

Cloud

WiFi cloud setup

Here you can assign a local WiFi network to your device, which will allow remote access to the device, and the WiFi network will provide the connection to the cloud.

Functions

Create an icon

Click on "Create icon" to create new control icons in the application.

Create a control icon / Create a Bluetooth control icon

After pressing the "+" button, select the Bluetooth icon (Figure 1), then click on the "Next" button to enter the **name of** the **control icon** (Figure 2). Next, you can select **the background colour of** the **control icon** (Figure 3). Click on the "Next" button to select **the icon you want to** display from the list (Figure 4)

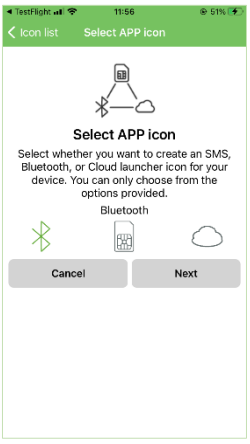


Figure 1.

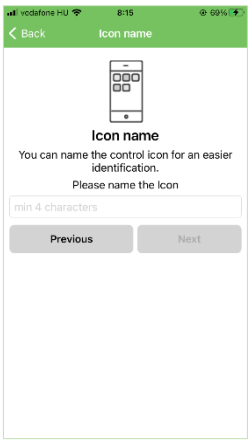


Figure 2

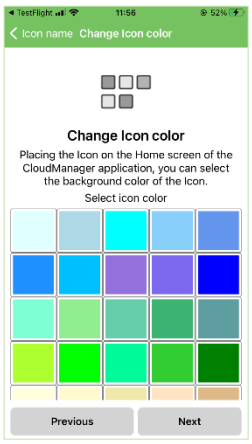


Figure 3

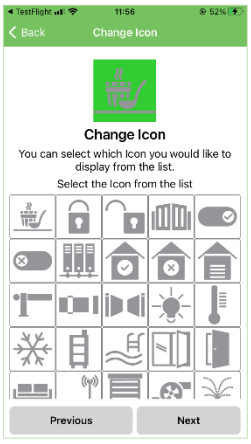
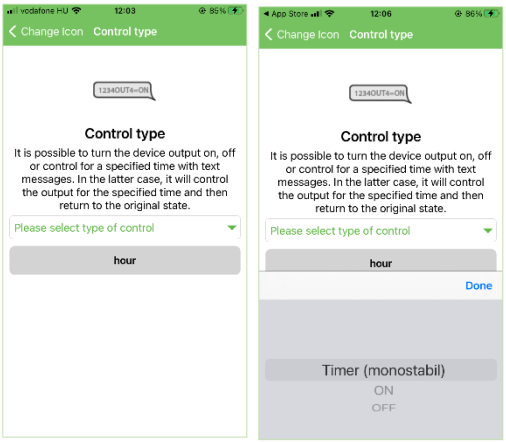


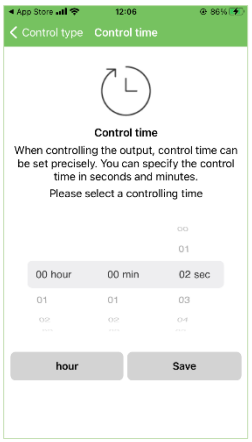
Figure 4

To control Bluetooth output, select the control mode:

Timing (Monostable)

It controls the output for the time period set in the device.





1. Figure

In the control mode, you can specify how long the control should take (Figure 1). You can specify the control time by selecting hours/min/sec.

Maximum selectable control time:

18 hours, 12 minutes and 15 seconds or 65535 seconds.

Once we have set it up, the **control icon will appear in** the icon list (Figure 2) and on the **Control Panel**.

Pressing the control icon activates the output.

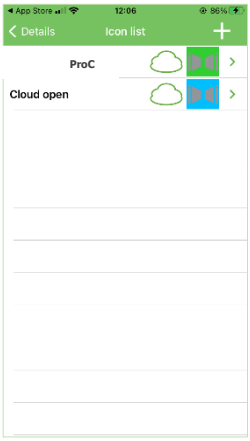
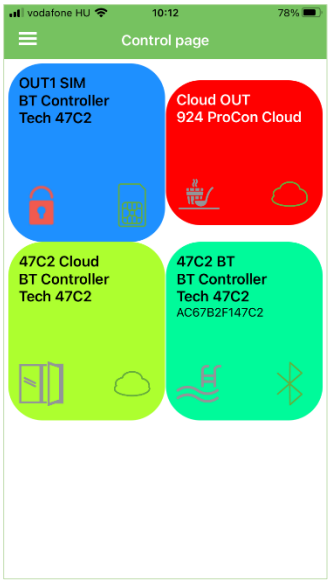


Figure 2.

Control button information



The information shown on the control button:

- **Function button name:** Unique name of the device or function to be controlled
- **Location name:** (device name entered at registration**)**

This name makes it easy to identify if you use multiple devices

- **Identification number: The WiFi/BT Programmer identification number is displayed**

Pressing the control button once activates the output.

If the control button is set up with Bluetooth, the device ID number will be displayed under the name you enter when controlling the output, while if the control button is set up with Cloud, the email address you identified when controlling the output will be displayed.

WiFi network connection

Once connected via Bluetooth, you can connect your device to a local WiFi network, allowing you to access your device in any area covered by the internet and remotely control its output or outputs. Once connected via Bluetooth - once WiFi connection is set up in the app - your device is immediately available in the cloud.
A "cloud" connection means an unlimited number of users.

WiFi network connection with Cloud Manager application

Open the Cloud Manager application and find the device you want to program in your device list (Figure 1).

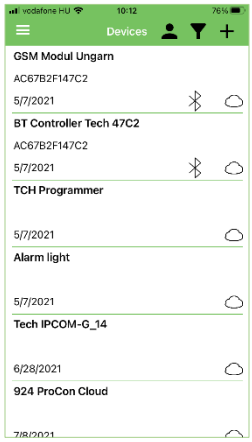


Figure 1.

Go to the WiFi cloud settings menu and select from the available WiFi networks (Figure 2)



Figure 2.



Enter the password for the WiFi network. (Figure 3)

Figure 3.

Enter a **user ID** in e-mail address format (Figure 1).

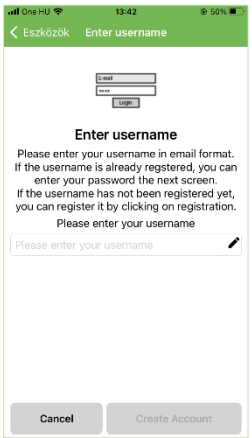


Figure 1.

You will be able to access the device settings with this email address.

Please check that the e-mail address you have entered is correct, and that there are no typos or spaces in front of it.

Enter the **user password!** (Figure 2)

If you have an existing (already registered) e-mail address, the application will display a green tick to indicate successful e-mail identification.

After a successful save, the WiFi/BT Programmer is connected to the cloud.

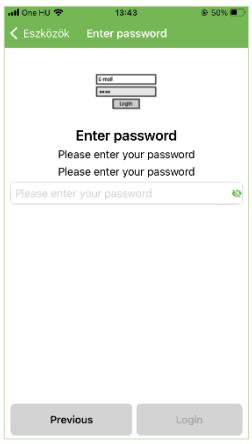


Figure 2.

Create a cloud control icon

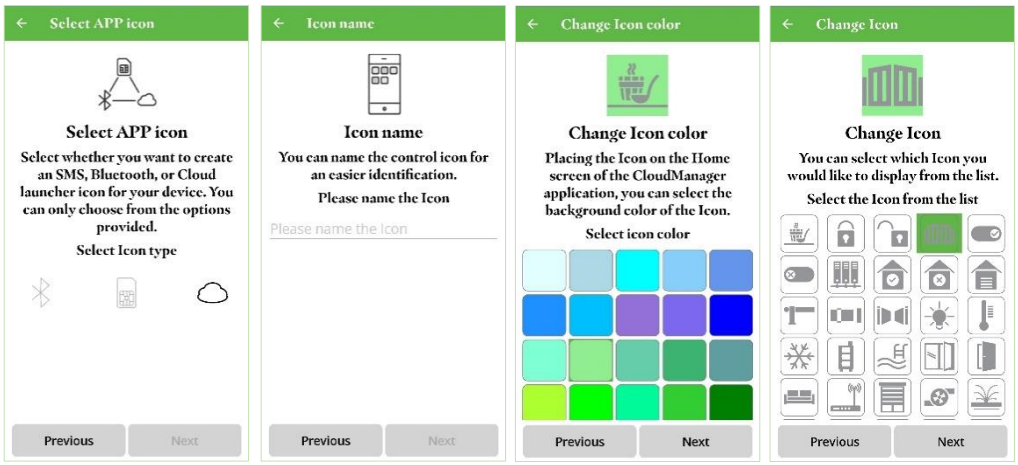
What has been described so far is how to create a Bluetooth pairing and Bluetooth control icon for a device. Now that our device is accessible over WiFi, we can create remotely accessible "cloud" control icons - outside WiFi range.

In the devices menu, check that you are logged in to the app with the email address you entered when you created the WiFi connection.

If there is no tick, log in with the email address and password you have already entered.

Once you have successfully logged in, find the device you want to control in the devices menu.

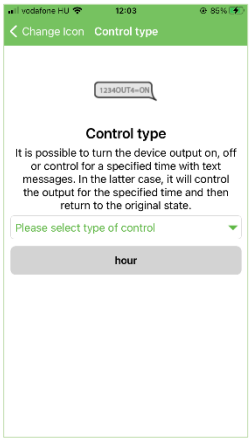
Click on the Create icon menu. Select the cloud icon to create a cloud-based control icon (1), then name it (2), specify the background colour of the control icon (3), and select the icon (4).



1. 2. 3. 4.

Depending on the device, **select the output you want to control (5)**

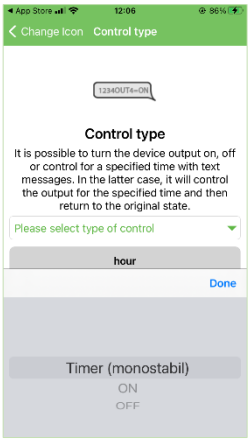
For cloud output control, select the output control type (6).



5.

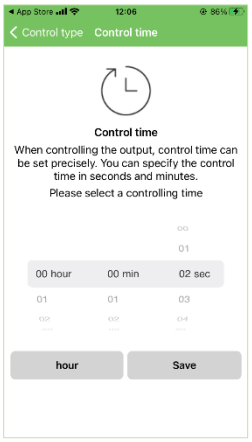
Set the output.

Timing (Monostable)

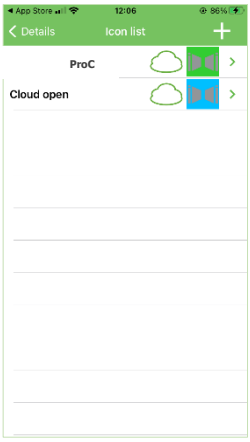


6.

It controls the output for the time period set in the device.



You can set how long the control should take place. You can set the control time by selecting hours/min/sec. Maximum selectable control time: 18 hours, 12 minutes and 15 seconds, i.e. 65535 seconds.



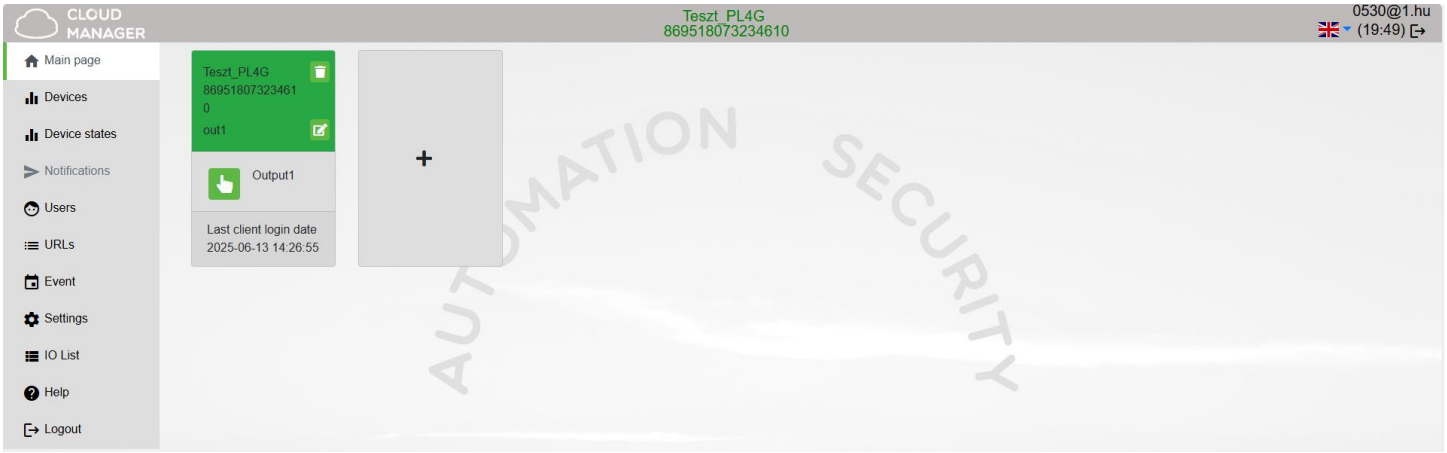
Moving on, the **control icon appears in** the icon list and on the **Control Panel**.
Pressing the control icon activates the output.

With WiFi/BT Programmer in ASCloud Manager

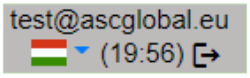
The module connected to the WiFi/BT Programmer can be accessed and controlled via the www.ascloudmanager.hu website after registration.

Home

Once you have logged in with your registered email address, the Devices menu will display the control interface of all devices that are registered or connected to the cloud. The names of devices that are currently online are shown in green, while the names of devices without a cloud connection are shown in red.

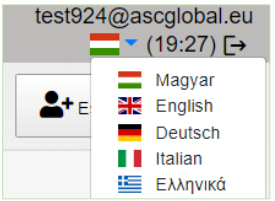


The site will automatically log you out after 20 minutes of inactivity. The current time is displayed in the top right corner of the screen.
By clicking on the control button, you will receive a system message informing you of the output's operation/status.





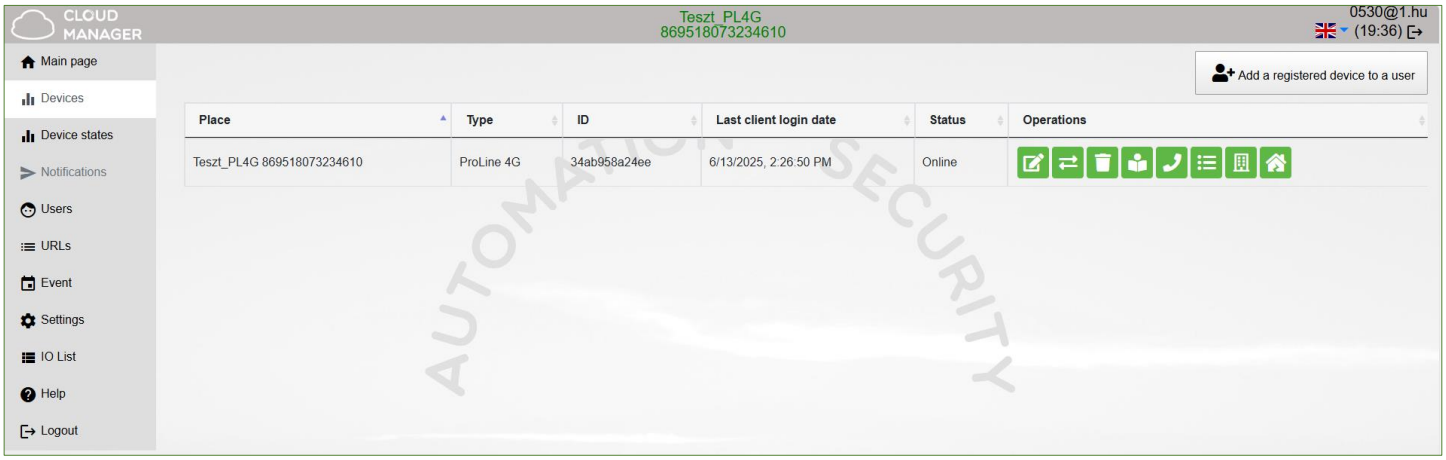
Language selection



A drop-down menu allows you to change the language setting of the page. The language of the page can be changed after login. Our service is constantly growing and is currently available in 5 languages.

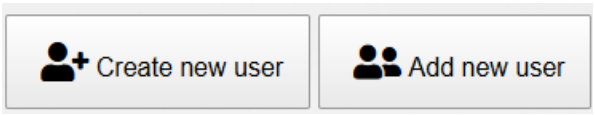
Devices

Clicking on the **"Devices"** menu displays the modules available to you with basic information.



Location: Name given at registration or installation
Type: Type of device
Identifier: the identification number of the device
Last login date: the last time you logged into the cloud
Condition: indicates the status of the device connection.
Online - connected
Offline - the device is not available via cloud service
Operations: rename, replace and delete your module from the cloud

Add a user



You can assign users to your device by entering a user email and password, and give them different privileges for output control.
Use "Create new user" for a user without an account. Use "Add new user" for a user who already has an account at www.ascloudmanager.com

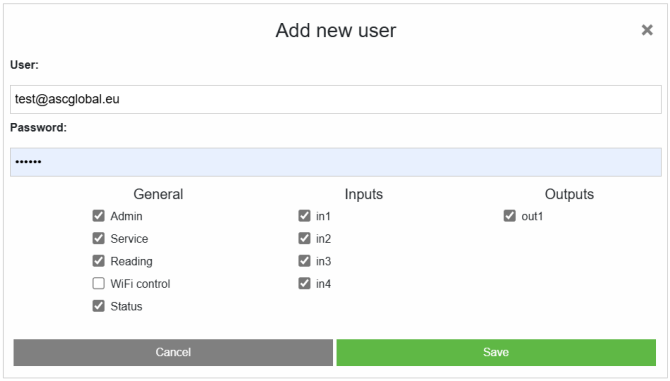
User rights

We can edit the access of our users and give them individual rights. We can change passwords, and if we no longer want to use them, we can simply delete them with the appropriate symbol.



Admin: administrator privileges. The administrator has virtually all permissions except the ability to delete the user who created the permission.
Service: gives you access to service data related to the operation of the module.
Read access:
Read-only

WiFi limit: Here you can limit the usage area that you give your user. If selected, the user will only be able to control the output within the local WiFi network.



Important!

For such use, the WiFi/BT Programmer must always be connected to a local WiFi network of the appropriate strength!

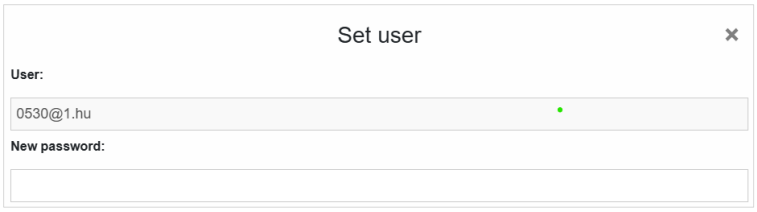
It's worth noting that, for example, near a gate, your mobile device will automatically look for the WiFi/BT Programmer device, so we can control it with a Bluetooth connection. In this case, as a user on site, it is difficult to know which connection was used to activate the output. This is important if the gate can be opened only in its immediate vicinity, but we cannot control the device further away.

If you leave the WiFi limit field blank, you can control your output from anywhere with any internet connection outside of a WiFi network, using mobile internet.

With a WiFi/BT Programmer connected to the module, you can control your output from anywhere in the world with a suitable WiFi connection.

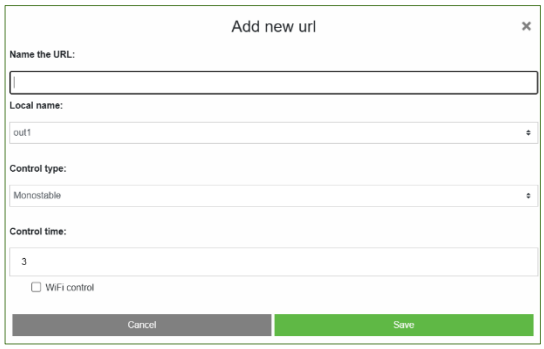
Change user password

With a few clicks you can change your own login password or your users' login passwords.



URL control icon creation

Under URL, click Add new URL to create a desktop PC control icon. Give a name to your control icon, specify an opening duration in seconds and here you can also specify whether to check local WiFi availability for control.



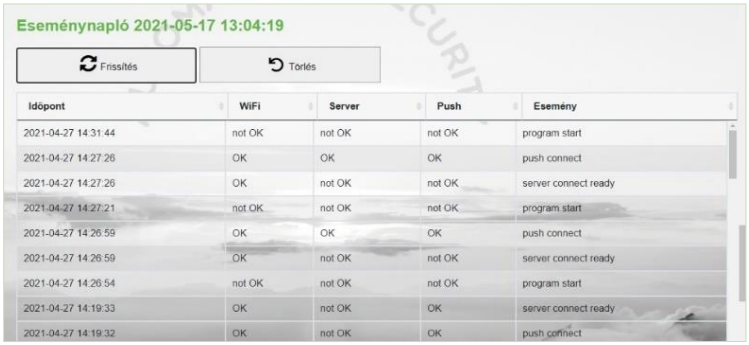
Left-click and drag it onto your screen and the URL will now operate the device connected to the output.

You can edit your existing URL link. We can change the way WiFi is accessed and disable its use.

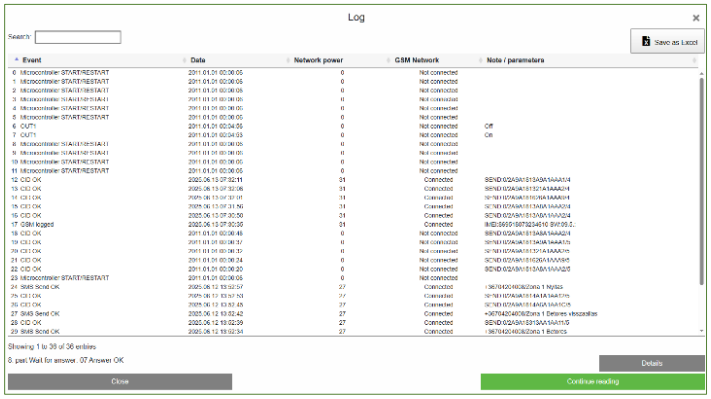
If you no longer want to use it, simply delete it with the appropriate symbol.

Event log

You can list user activity in the event log. You can see who used the device, when it was used and whether the connection was made via WiFi or Bluetooth. The event log can be saved as an XLS file.



You can also list the event log of your GSM module by selecting "Event list" in the "DEVICE" menu. Here you can find all GSM-based information, which can also be saved in Excel format.



Settings

Information

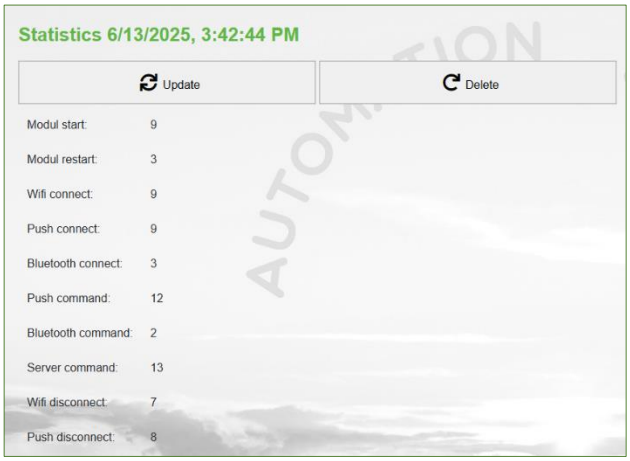
In this menu you can get information about your device, depending on your rights.



Title: name assigned to the device
MAC/IMEI/Serial number: Module's MAC/IMEI/serial number
Date of creation: Date of registration
Last client login date: last logon date
Date of last issued command: Date of last output control
Version: current program number
WiFi network (SSID) name: The WiFi network where the device is available
IPv4: IP identifier provided by the local service provider

Statistics

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



WiFi signal strength

One of the most visible user interfaces, where you can see how the device was connected to WiFi, broken down by day.



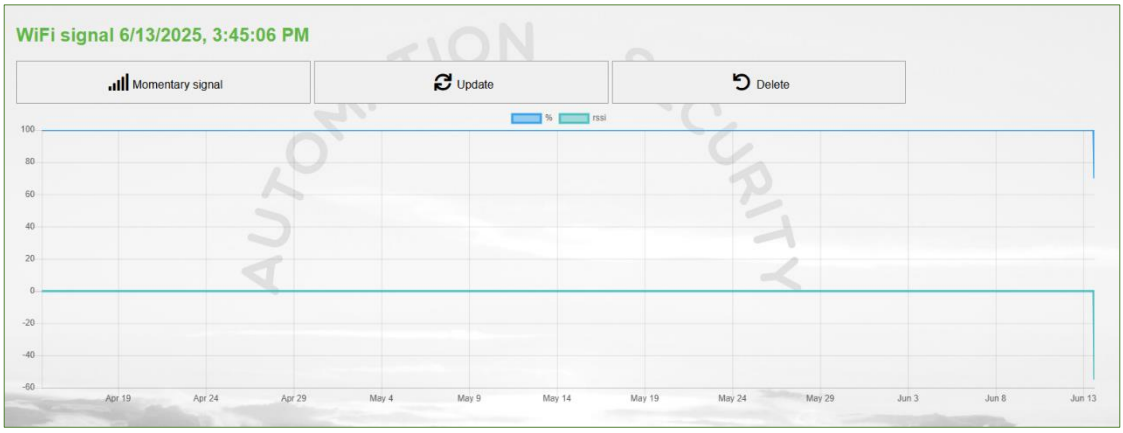
Send command

You can turn the Bluetooth and WiFi connections on or off and restart the device with a single press of a button. The WiFi/BT Programmer activates Bluetooth for 15 minutes after power-on, so for the initial connection, simply connect it to the module.



WiFi

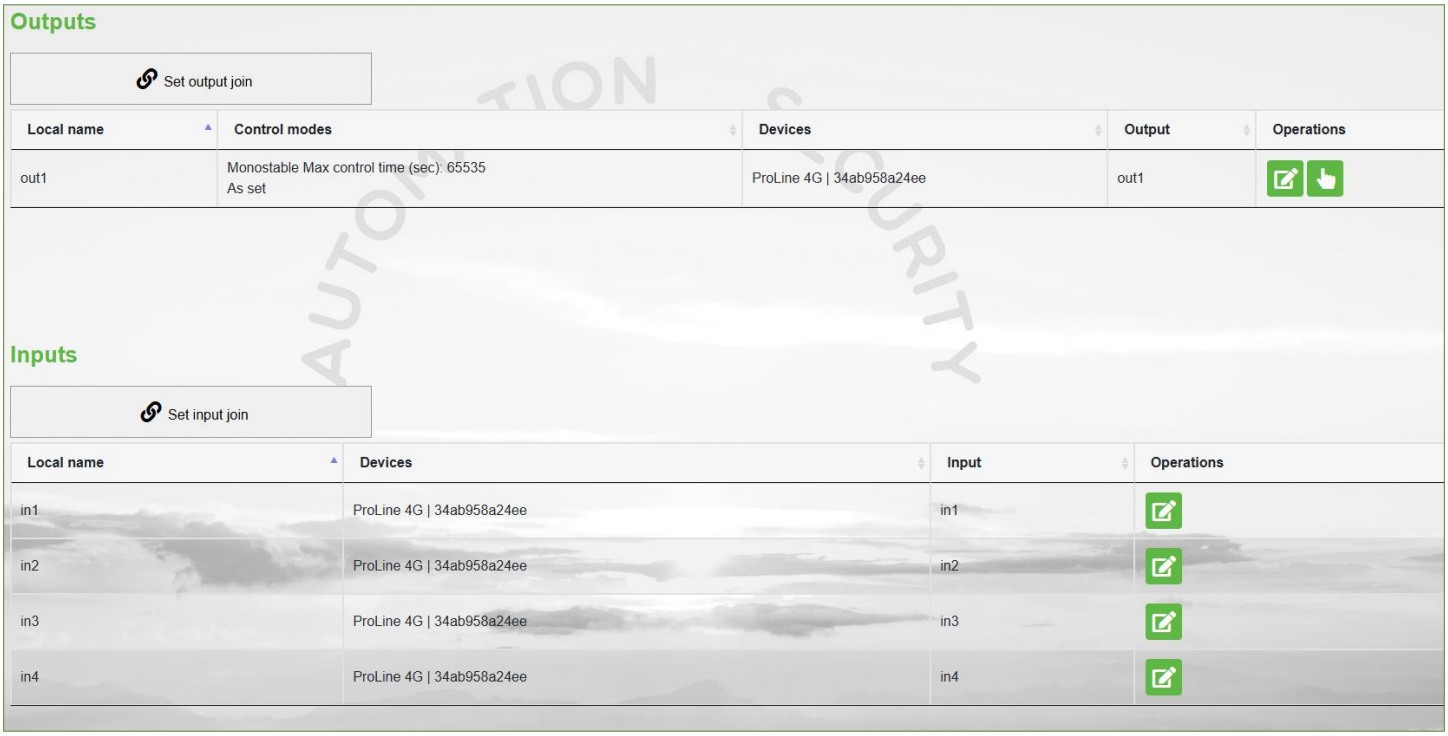
Select WiFi to see which WiFi network your device is connected to. You can also select a new network.



You can specify which network you want to use with which priority and which network you want to use first.

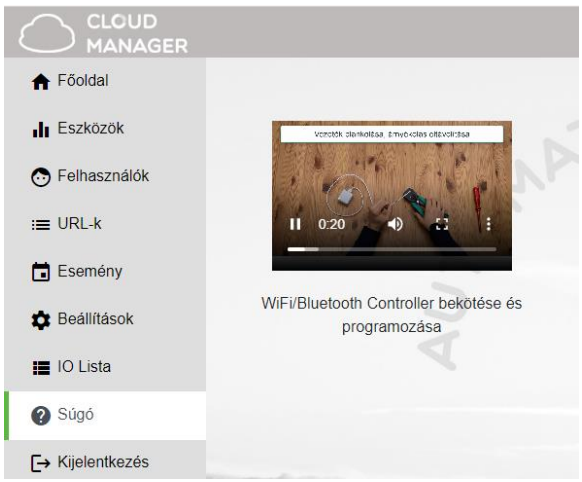
I/O List

The I/O List menu allows you to view and set output connection details. Use the pointer finger icon to control your output.



Help

Click on Help to get help on connecting your WiFi/BT Programmer in video form from the first step to the last.



Data management

Management of the data you provide in the app.

Users can use the system with an e-mail address and password, which must be provided in order to operate the system. The consent of users to data processing by providing their personal data directly or indirectly is deemed to be freely given, unambiguous and express consent.

The purpose of the processing is to grant users access to and the right to use the system.

The system stores the email address in read-only form, with the password and installation location encrypted on the manufacturer's server.

Only the installation location is stored in the memory of the module.

The personal data are not accessible by third parties other than the manufacturer or installer, who are obliged to treat the personal data confidentially and in accordance with the applicable legal requirements and may not disclose them to third parties.

Responsibility of the Manufacturer

The Manufacturer assumes all liability in connection with the operation and use of the system, including the proper use of the hardware and software, in accordance with applicable law.

The Manufacturer shall not be liable for any damage resulting from:

the user loses the device capable of controlling the system or the aforementioned personal data, or either is stolen, thus allowing an unauthorised person to access the system;

the user chooses a simple or easy-to-crack password; **the user intentionally and in good faith, directly or indirectly, discloses personal data or provides a device capable of controlling the system to a third party.**