

ecoLINE PRO – DIN rail ecoLINE MINI – DIN rail

INSTALLATION AND APPLICATION MANUAL

For device version v4.00 Document version 1.1 05.06.2025



Product models:

- ecoLINE PRO DIN rail ETH.4G.IN6.R1
- ecoLINE MINI DIN rail 4G.IN6.R1

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1 ecoLINE PRO/MINI operation

1.1 Key functions of the product

The key function of the **ecoLINE PRO/MINI** is forwarding reports of alarm control panels to remote monitoring station over the mobile Internet, using multiple protocols, as well as sending Push messages to users about these reports.

Product models:

ecoLINE PRO DIN rail ETH.4G.IN6.R1	ecoLINE MINI DIN rail 4G.IN6.R1
Ethernet interface	-
4G modem that supports the	e European frequency bands
DIN rail mount	
6 NO/NC inputs	
1 NO/NC/COM relay output	
1 telephone line emulator output	
RS232 serial port	
TTL serial port	

Key functions:

- 6 configurable NO/NC contact inputs for sending custom reports.
- 1 NO/NC/COM relay output controllable from the mobile application.
- Forwards reports of the connected alarm system and events generated by own inputs to remote monitoring station over the Internet to up to 2 IP addresses, using SIA IP DC-09, TELLMon or TEX protocol.
- ecoLINE PRO multiplatform mobile application (iOS, Android).
- Sends Push messages on alarm system events and own input events to up to 20 registered mobile devices.
- Configurable Contact ID event codes for each contact input, including partition and zone options.
- Output control through the mobile application, which can also be used to arm or disarm the connected alarm system remotely.

► Mobile application:

The device can be used with the **ecoLINE PRO** mobile app available on the following platforms:

Minimal system requirements:

- Android: 6
- iOS: 13



1.2 Under Voltage Lock Out (UVLO) function



The product is provided with built-in automatic power disconnection (Under Voltage Lock Out) function. The device will turn off automatically when the supply voltage drops below **UVLO** critical level, and turns back on when the voltage restores to the operational level.

Remote monitoring application overview 1.3



The ecoLINE PRO/MINI communicates with SIA DC-09 receivers, TELLMon receivers and MVP.next or TEX-MVP servers through the GSM service provider's mobile switching center using the GPRS/LTE network or via Ethernet network (for the **PRO** product model), and then through the Internet. After processing and conversion, the receiver forwards the received data packages through a serial port towards the monitoring PC that runs the alarm monitoring software.

For the **PRO** product variant with an Ethernet port: If the wired Internet is connected, the device will use mobile data as a backup only in the event of a wired Internet outage. In this case, to avoid interruption of online processes, the device reverts to the wired Internet use only after the scheduled daily restart or a manual restart.

1.3.1 Event sending and acknowledging

The device attempts to sends the reports first to the configured primary IP address. If this fails, it will attempt to send the reports to the backup IP address. The device will send the ACK signal towards the alarm control panel only when it receives the ACK signal from at least one of the configured receivers (IP addresses). If the device does not receive an ACK signal from any of the configured receivers, it will attempt to resend the report up to 10 times per IP address. An exception to this is when the device is banned in the given receiver, since in this case it will not even attempt to send a report to that receiver. If the device still fails to send a report for the 10th attempt to a configured IP address, it will stop reporting the event and will no longer send notification on the given event, but the event will be shown in the event logs.

If there are no remote monitoring receiver IP addresses configured at all, the device will send ACK signals to the alarm control panel automatically.

Whether a remote monitoring receiver is configured or not, the device will send Push notifications to the registered mobile devices on the event categories enabled in the settings and by users in the mobile application.

- 2 Connecting the terminals and putting into operation
- 2.1 System terminals



	-	Power input (negative for DC)	12-30VDC or 12-24VAC	
AC/DC	+	Power input (positive for DC)	minimum 500mA	
	TIP	Emulated telephone line	Telephone line output	
	RING	Emulated telephone line	48V / 25mA / 600Ω	
	NC	Normally closed terminal Relay out		
OUT1	NO	Normally open terminal	(dry contacts)	
	СОМ	Common terminal	max. 1A / 24V DC	
IN1		Contact input 1		
IN2		Contact input 2		
IN3		Contact input 3	Use potential free (dry)	
IN4		Contact input 4		
IN5		Contact input 5	· · · · · · · · · · · · · · · · · · ·	
IN6		Contact input 6		
GND		Common terminal of the contact inputs		
	RX	RS232 receive (data)		
RS232	ТΧ	RS232 transmit (data)	(12V)	
	GND	RS232 common terminal	()	
	RX	TTL receive (data)		
TTL	ТΧ	TTL transmit (data)	I I L serial port (5V)	
	GND	TTL common terminal		



Attention!

Do NOT connect the metallic parts of the GSM antenna connector or the terminals of the device directly or indirectly to the protective ground, because this may damage the device!

Although the GND and the power input negative terminals are equivalent, due to the design of internal circuit protections, the GND terminal must not be used as negative input for powering the device because this may damage the device! The GND terminal should only be used for connecting the contact inputs!

We would not advise powering the device directly from the power output of the alarm control panel (AUX), as we can't guarantee that the given output is able to fully operate the device. Insufficient powering may lead to communication errors and frequent device restarting, making it impossible for the device to operate normally as expected. To avoid this, we suggest that you use a separate power supply for the device.

An uninterruptible power supply with adequate power is essential for the product to operate properly. The power supply must provide a power that can serve the minimum operating voltage and the maximum power consumption of the device. The power feed must be continuous and transient-free even when there is a mains power failure, and the power feed switches to backup battery operation.

An ideal solution for the above purposes is the power supply designed and manufactured by TELL, which we expressly recommend using for our communicators.

Recommended TELL power supply: **TT40VA-16VAC/24VDC**, which provides power feed (16V AC) also for the alarm control panel at the same time.

2.3 Input wiring

For the inputs, the normally closed or normally open dry contact should be connected between the given input (**IN1**...**IN6**) and the **GND** terminal.

If a normally open dry contact is used to activate the input, choose the **NO** (normally open) option at the given input's settings. In this case, the input becomes activated when the open contact between the given input (**IN1**...**IN6**) and the **GND** terminal is closed.

If a normally closed dry contact is used to activate the input, choose the **NC** (normally closed) option at the given input's settings. In this case, the input becomes activated when the closed contact between the given input (**IN1**...**IN6**) and the **GND** terminal is opened.

2.4 Output wiring

The **OUT** output has **NO**, **NC**, and **COM** terminals with potential free (dry) contacts. The output provides normally open dry contacts between the **NO** and **COM** terminals as the default state, and closed contacts when controlled. The relay output terminals support a maximum load of **1A** @ 24V DC.

2.5 Preparing and installing the SIM card

- The device requires a Nano (4FF) size SIM card.
- The services to be activated on the SIM card installed in the ecoLINE PRO/MINI device should be chosen according to the services of the device. For communication with receivers and servers, and use with the mobile application, it requires a SIM card with available mobile Internet, that may use either a public or a private APN.



- Disable the voicemail service and SMS notification about missed calls on the SIM card installed in the device.
- The device can handle the SIM card's PIN code. If you want to use the PIN code management, configure the SIM card's PIN code in the programming software in the "Device settings / General" menu. Otherwise, disable PIN code request on the SIM card.
- Install the SIM card as shown in the figure above. Push the card into the socket until you hear a click. If you want to remove the SIM card, press it again, and then pull it out.

2.6 Connecting the antenna

Connect the GSM antenna to the SMA-F socket. The device comes with an antenna which provides good transmission under normal reception circumstances. In case of experiencing signal strength problems or/and wave interference (fading), use a directed antenna or find a more advantageous mounting place for the antenna. In case of installing the unit into a metal box, the antenna should be mounted outside the box, in a place where the measured GSM signal is the highest available.

2.7 Installation

Please check the environment before installing:

- Verify the GSM signal with your mobile phone. It may happen that the signal strength is not sufficient in the place where you planned to mount the device. In this case, you can reconsider the place of installation before mounting the device.
- Do not mount the unit in places where it may be affected by strong electromagnetic disturbances (e.g. close to electric motors, high voltage, etc.).
- Do not mount the unit in wet places or places with a high degree of humidity.

2.8 Putting into operation

- Check the firmware version of your device in the "*Status monitoring*" menu and update the firmware if a newer version is available.
 (Downloads: https://www.tell.hu/en/downloads, instructions: Updating the firmware).
- Make sure that the SIM card is installed correctly in the device.
- Make sure that the antenna is connected correctly to the device.
- Make sure that the wires are connected correctly.
- You can power up the device (12-30V DC or 12-24V AC). Make sure that the power source provides sufficient power for the operation of the ecoLINE PRO/MINI device. The nominal current consumption of the ecoLINE PRO/MINI device is 130mA, however, it may rise to 500mA during communication and output control. If the applied power source does not provide sufficient power for the operation of the device, this may cause malfunctions.

ED	Flashing green	Normal operation, connected to the network
VTUS I	Flashing red	Failed to connect to the network or system startup/restart is in progress
ST₽	Permanent red	SIM card error
	Permanent ON	Searching for network
LED	200ms ON, 200ms OFF	Data transmission
GSM	800ms ON, 800ms OFF	Registered on the network
	Permanent OFF	Modem powered off

2.9 STATUS and GSM LED signals

2.10 Technical specification

Supply voltage range: Nominal current consumption: Highest current consumption: Operating temperature: Transmission frequency (4G modem):

Highest load supported on output: Dimensions: Net weight: Gross weight (packed): 12-30V DC or 12-24V AC 130mA 500mA @ 12V DC, 250mA @ 24V DC -20°C - +70°C GSM/GPRS/EDGE: 900/1800 MHz LTE/FDD: B1/B3/B5/B7/B8/B20 1A @ 24VDC 88.4 x 119 x 23.1mm 149g 298g

RF emission power:

Frequency	Power	Minimum power
EGSM900 (GMSK)	33dBm ± 2dB	5dBm ± 5dB
DCS1800 (GMSK)	30dBm ± 2dB	0dBm ± 5dB
EGSM900 (8-PSK)	27dBm ± 3dB	5dBm ± 5dB
DCS1800 (8-PSK)	26dBm +3/-4dB	0dBm ± 5dB
LTE-FDD B1	23dBm +/-2.7dB	<-40dBm
LTE-FDD B3	23dBm +/-2.7dB	<-40dBm
LTE-FDD B5	23dBm +/-2.7dB	<-40dBm
LTE-FDD B7	23dBm +/-2.7dB	<-40dBm
LTE-FDD B8	23dBm +/-2.7dB	<-40dBm
LTE-FDD B20	23dBm +/-2.7dB	<-40dBm

3 Configuring the ecoLINE PRO/MINI

The **ecoLINE PRO/MINI** can be configured using the **ecoLINE PRO** programming software on a computer in the following ways:

- Via USB
- Over the Internet.

The ecoLINE PRO programming software is compatible with the following operating systems:

• Windows 10 (32/64 bit)

Earlier Windows operating systems are not supported by the software.

Installing the programming software: open the software setup application and follow the instructions of the installation wizard to complete the installation. The latest version of the programming software can be downloaded from the manufacturer's website (<u>http://www.tell.hu</u>).

3.1 The user interface and configuration options of the software

The user interface language can be selected during installation.

The user interface appearance can be changed using the "*Theme*" dropdown-menu found in the "*Software settings*" / "*Settings*" menu, where you can choose out of multiple appearance themes.

The software saves changes related to appearance upon closing and applies the saved settings when reopened.

In the menus that contain a spreadsheet, an advanced filter is available in each column by clicking

on the filter icon Name , which appears on the right hand edge of each column header by moving the mouse pointer on the given header. You can use the filters to filter data in any column. You can toggle between ascending and descending data sorting by clicking on a column's header. You can toggle between show/hide columns or change the order of the columns in the

spreadsheet by drag-and-drop, after clicking on the button marked with a star in the top left corner of the spreadsheet. You can also change the order of the columns by moving the header of the columns.

Built-in help:

Some settings options in the software have an additional icon: ② or 4. By holding the mouse pointer on the icon, a tooltip will be shown with information about the given option. Options with

the 📥 icon require expertise and special attention!

3.2 Methods for connecting to the device

Connection type 🔞			
USB	TEX protocol	TELLMon protocol	Cloud

For connecting to the device using the programming software, the options listed below are available. For the "*TEX protocol*" and the "*TELLMon protocol*" connection options, the communication protocol used by the device depends on how this has been configured in the device by the installer, in accordance with the type of the server/receiver that it is connected to.

USB: connecting directly using a USB-A to USB-C cable.

TEX protocol: connecting remotely over the Internet to a device, which uses the TEX protocol. Choose this option if the device is connected to any of the following servers/receivers via the TEX protocol:

- MVP.next server;
- TELLMon receiver;
- TEX-MVP server;
- TEX BASE or TEX PRO server.

TELLMon protocol: connecting remotely over the Internet to a device, which uses the TELLMon protocol. Choose this option if the device is connected to any of the following servers/receivers via the TELLMon protocol:

- MVP.next server;
- TELLMon receiver.

Cloud: connecting remotely over the Internet, via the cloud server operated by the manufacturer. You can use this option if the device is connected to the cloud.

3.2.1 TELL servers and receivers

- **TELLMon**: standalone TELL remote monitoring receiver.
- **MVP.next**: cloud-based TELL remote monitoring server system.
- **Cloud**: cloud-based TELL server used for the mobile applications and remote access of TELL devices.
- TEX-MVP: cloud-based TELL remote monitoring server system (discontinued).
- **TEX BASE** and **TEX PRO**: standalone TELL remote monitoring server (discontinued).

3.2.2 Configuring directly via USB

To start programming the device, follow the instructions below:

- Open the ecoLINE PRO programming software.
- Select the USB option in the "Connection type" menu, power up the device and connect it to the computer using a USB-A to USB-C cable.

Connection parameters			
Device password			

- Enter the device password.
 - Super administrator permission: full access to all settings. (Default password: 1234).
 - \circ Installer permission: can only access settings enabled by the super administrator. You can configure the installer password separately (see chapter "Connection type").
 - Connecting without a password: only restoring the factory default settings is available, if the device has not been locked.
- Click on the "Connect" 2 button.
- If the wrong password is entered, the software connects to the device, but the same functions will be available as when connecting without a password. To try a different password, close

the connection using the "Disconnect" 28 button, enter the new password and then

connect again using the "*Connect*" Volume button.

- The software connects to the device using standard HID driver, which is integrated in Windows operating systems, thus there is no need to install special USB drivers. When the device is connected to USB for the very first time, the Windows operating system installs the drivers automatically.
- The connection status is indicated by the USB status icon placed in the upper left corner of the program window:



VSB disconnected (green)

connected via USB (grey)

- After connecting using the valid password, you can configure the device, change settings, download event logs and monitor system status. The program will read the settings from the device automatically after connecting to the device.
- To close the connection, click on "*Disconnect*" **38** button.

3.2.3 Remote connecting to devices via cloud service

This connection type can be used if the *ecoLINE PRO/MINI* device is connected to the cloud. For connecting via the mobile Internet, the APN settings must be successfully set, and a SIM card with available mobile Internet service must be installed in the device, which may use either a public or a private APN, but in the latter case, you need to arrange with the mobile service provider to open the given private APN for accessing the cloud server IP address at 52.30.109.179, port: 2020. To connect to the cloud, cloud usage must be enabled in the settings, in the *"Functions and permissions"* menu. If you don't want to enable permanent cloud usage due to the data use that it involves, it is possible to instruct the device by SMS to connect temporarily to the cloud (you can read more about that in the below).

With this connection type, connection between the device and the **ecoLINE PRO** programming software will be established through the cloud server operated by the manufacturer.

Connection parameters				
Device name ecoLINE PRO Demo	Cloud Cloud (ecoLINE PRO)	Device ID 68:27:19:04:25:94	Device password	Save the password

Device name: from this drop-down menu, you can select the device you want to connect to, if you have already added the contact details of the given device in the "*Device register*" menu.

Cloud: the name of the server where the device is connected. The server named "*Cloud* (*ecoLINE PRO*)" is the default. In case of using a proxy, for connecting remotely to the device, it is possible to configure a server IP address and port number different from the default server, by adding a new server in the "*Server register*" menu. If there are further servers recorded, you can choose the appropriate server for the given device in this drop-down menu from the recorded servers.

Device ID: the device identifier of the **ecoLINE PRO/MINI** device to which you want to connect. The device identifier is unique, burned-in during production, and thereby it cannot be changed. The device ID format is: **FF:FF:FF:FF:FF:FF** (6x2 hexadecimal characters).

You can read the device ID of the given device from the "*Device ID*" section in the "*Status monitoring*" menu, when connected to the device. The device will also send its device ID in the reply to your request for connecting to the cloud server, sent by SMS to the device, about which you can read more below.

Device password: the security password of the device (default superadmin password: 1234).

Save the password: in case that you have provided the data necessary for connecting to the device here in the "*Connection parameters*" section, and you enable this option, the program will also save the entered password in the device register, when you initiate a connection to the device.

Connecting to the device through the cloud server:

- Select the "*Cloud*" \bigcirc option in the "*Connection type*" section.
- If you have already registered the device in the "Device register" menu, select the device you want to connect to from the "Device Name" drop-down menu. Otherwise, you can either enter the data needed for connecting, in the corresponding fields, which will be recorded automatically in the device register using the entered device ID as the device name, when you start connecting to the device. For this, select the server from the "Cloud" drop-down menu, enter the identifier of the device in the "Device ID" field, and the device password in the "Device password" field.

Entering the device password:

- Super administrator permission: full access to all settings. (Default password: **1234**).
- Installer permission: can only access settings enabled by the super administrator. You can configure the installer password separately (see chapter "<u>Connection type</u>").
- Connecting remotely without a password is not possible.
- If cloud usage is enabled in the settings of the given device, the device keeps continuous connection with the cloud based server. In this case, skip the SMS sending process mentioned below. You can enable cloud usage in the "*Functions and settings*" menu. If cloud usage is disabled, the device will not keep continuous connection with the cloud, it will only connect upon request. Therefore, if this is the case, before trying to connect remotely to the device, the request for connecting to the server should be sent by SMS to the phone number of the SIM card installed in the device.

The device accepts the request for connecting to the cloud from any phone number, if the valid device password is added in the message. The device password should be written in the message at the beginning, as specified below. Commands sent with a missing device password or a wrong password, will be ignored by the device and it will not send any reply to these numbers.

The request command for connecting to the server is:

*device password,connect#

device password: type the device password at the beginning of the message. The superadmin and installer passwords are both accepted (default superadmin password: 1234).

Example on the usage of the command mentioned above: ***1234,connect#**

Send the mentioned request command for connecting to the server by SMS to the phone number of the SIM card installed into the device and wait for the device's reply. The device will immediately send the reply below, and will start connecting to the cloud:

Connecting

The device will send a new message as soon as it connects to the cloud successfully:

Connected to (*IP address:port number*) **ID=**(*device identifier*)

If cloud usage is disabled in the device settings, the device remains connected to the cloud for 10 minutes only, and thereafter, in case of inactivity it disconnects automatically. Therefore, you have 10 minutes to connect to the device after it sends the reply message.

If no reply is received from the device within 1 or 2 minutes, please make sure that the settings are correct and that the circumstances of sending the request for connecting satisfy the conditions mentioned above. If you receive no message about a successful connection, it means that the device failed to connect to the cloud.

Possible error messages:

Wrong password	Wrong superadmin or installer password
Missing APN	the APN is not configured

If the APN settings are not configured in the device, or if they are wrong, you can configure these using the following SMS commands:

SMS command	Specification
*device password,apn=APN#	Configuring the APN
*device password, apn= APN,username,password#	Configuring the APN along with the username and password belonging to it

Example on the usage of the commands mentioned above:

*1234,apn=internet#

***1234**,apn=net,guest,guest#

Possible error messages:

Wrong password	Wrong superadmin or installer password
Denied (no permission)	No permission to change the APN with the installer password
Changing the APN settings failed	Changing the APN settings failed (typing error in the message, or other error)

Wait for the device's reply. After it has confirmed that it has connected to the cloud, continue with the next step.

- Click on the "*Connect*" Goundary button and wait for the connection to establish. The process of connecting may take a few seconds.
- The connection status is indicated by the status icon in the top left corner of the program window:



connected (gray)

- After connecting using the valid password, you can configure the device, change settings, download event logs and monitor system status. The program will read the settings from the device automatically after connecting to the device.
- To disconnect from the device click on the "*Disconnect*" Sutton.

3.2.4 Remote connecting to devices which are using the TEX protocol

This connection type can be used if the *ecoLINE PRO/MINI* device you want to access remotely has been configured to communicate with the given server using the TEX protocol. This is an early custom TELL protocol which is supported by the *ecoLINE PRO/MINI* device to be able to communicate with the older TEX-MVP and TEX BASE/PRO servers. Therefore, this connection type should be used basically to connect to the device via these servers. However, for compatibility with the old TEX communicators, the TELLMon receiver and the MVP.next server also support the TEX protocol. Therefore, this connection type should also be used if the device is connected to a TELLMon receiver or an MVP.next server, and it has been configured to communicate with the given server or receiver using the TEX protocol for some reason.

Further details on the remote access of devices via the MVP.next server you can find in chapter "<u>Server register / Remote access of devices via the MVP.next server</u>".

With this connection type, connection between the device and the **ecoLINE PRO** programming software can be established through the server/receiver where the device is online.

Connection parameters					
Device name ecoLINE PRO Demo	Server/Receiver	TEX group ID	TEX device ID	Device password	Save the password

Device name: from this drop-down menu, you can select the device you want to connect to, if you have already added the contact details of the given device in the "*Device register*" menu.

Server/Receiver: the name of the server or receiver where the device is connected. The server or receiver contact details should be recorded in advance in the "*Server register*" menu.

TEX group ID: the CMS identifier of the **ecoLINE PRO/MINI** to which you want to connect. The TEX group ID can be configured in the device settings. Its format is: **FFF** (3 hexadecimal characters).

TEX device ID: the TEX identifier of the **ecoLINE PRO/MINI** to which you want to connect. The TEX identifier can be configured in the device settings. Its format is: **FFF** (3 hexadecimal characters).

Device password: the security password of the device (default superadmin password: 1234).

Save the password: in case that you have provided the data necessary for connecting to the device here in the "*Connection parameters*" section, and you enable this option, the program will also save the entered password in the device register, when you initiate a connection to the device.

Connecting to the device through a server/receiver which uses the TEX protocol:

- Select the "*TEX protocol*" Option in the "*Connection type*" section.
- If you have already registered the device in the "Device register" menu, select the device you want to connect to from the "Device Name" drop-down menu. Otherwise, you can either enter the data needed for connecting, in the corresponding fields, which will be recorded automatically in the device register using the entered device ID as the device name, when you start connecting to the device. For this, select the server from the "Server/Receiver" drop-down menu, where the device is connected, enter the CMS identifier in the "TEX group ID" field, the TEX identifier of the device in the "TEX device ID" field, and the device password in the "Device password" field. The server or receiver contact details should be recorded in advance in the "Server register" menu.

Entering the device password:

- Super administrator permission: full access to all settings. (Default password: **1234**).
- Installer permission: can only access settings enabled by the super administrator. You can configure the installer password separately (see chapter "<u>Connection type</u>").
- Connecting remotely without a password is not possible.
- Click the "Connect" We button.
- The connection status is indicated by the status icon in the top left corner of the program window:

disconnected (green)

connected (grey)

- After connecting using the valid password, you can configure the device, change settings, download event logs and monitor system status. The program will read the settings from the device automatically after connecting to the device.
- To disconnect from the device click on the "Disconnect" W button.

3.2.5 Remote connecting to devices which are using the TELLMon protocol

This connection type can be used if the *ecoLINE PRO/MINI* device you want to access remotely is connected to a TELLMon receiver or an MVP.next server, and it has been configured to communicate with the given server or receiver using the TELLMon protocol.

Further details on the remote access of devices via the MVP.next server you can find in chapter "<u>Server register / Remote access of devices via the MVP.next server</u>".

With this connection type, connection between the device and the **ecoLINE PRO** programming software can be established through the receiver where the device is online.

Connection parameters				
Device name	Server/Receiver	Device ID	Device password	
ecoLINE PRO Demo	TELLMon	68:27:19:04:25:94	****	Save the password

Device name: from this drop-down menu, you can select the device you want to connect to, if you have already added the contact details of the given device in the "*Device register*" menu.

Server/Receiver: the name of the server or receiver where the device is connected. The server or receiver contact details should be recorded in advance in the "*Server register*" menu.

Device ID: the device identifier of the **ecoLINE PRO/MINI** device to which you want to connect. The device identifier is unique, burned-in during production, and thereby it cannot be changed. The device ID format is: **FF:FF:FF:FF:FF:FF** (6x2 hexadecimal characters).

You can read the device ID of the given device from the "*Device ID*" section in the "*Status monitoring*" menu, via USB connection, or from the user interface of the server or receiver.

Device password: the security password of the device (default superadmin password: 1234).

Save the password: in case that you have provided the data necessary for connecting to the device here in the "*Connection parameters*" section, and you enable this option, the program will also save the entered password in the device register, when you initiate a connection to the device.

Connecting to the device through a receiver which uses the TELLMon protocol:

- Select the "**TELLMon protocol**" option in the "**Connection type**" section.
- If you have already registered the device in the "Device register" menu, select the device • you want to connect to from the "Device Name" drop-down menu. Otherwise, you can either enter the data needed for connecting, in the corresponding fields, which will be recorded automatically in the device register using the entered device ID as the device name, when you start connecting to the device. For this, select the server or receiver from the "Server/Receiver" drop-down menu, where the device is connected, enter the identifier of the device in the "Device ID" field, and the device password in the "Device password" field. The server or receiver contact details should be recorded in advance in the "Server register" menu.

Entering the device password:

- Super administrator permission: full access to all settings. (Default password: **1234**).
- o Installer permission: can only access settings enabled by the super administrator. You can configure the installer password separately (see chapter "<u>Connection type</u>").
- Connecting remotely without a password is not possible.
- The ecoLINE PRO/MINI device that communicates using the TELLMon protocol is not online continuously. The device connects to the server or receiver only when it sends a supervision message or reports an event. Therefore, after clicking on the "Connect" button, you will have to wait for the device until it next connects to the server or receiver to send a supervision message or report an event. This is the moment when the programming software can connect to the device. Therefore, if the device is configured to rarely send supervision messages to the server or receiver, the programming software can connect to the device after a long time only (depending on the configured supervision message sending interval).
- The connection status is indicated by the status icon in the top left corner of the program • window:



☐ –∔⊘ disconnected (green)

- connected (gray)

- After connecting using the valid password, you can configure the device, change settings, download event logs, monitor system status and perform controls. The program will read the settings from the device automatically after connecting to the device.
- To disconnect from the device click on the "*Disconnect*" -••• button.

4 ecoLINE PRO programming software usage and feature descriptions

4.1 Connection menu

4.1.1 Viewing the settings options and configuring offline

ecoLINE PRO programming softw	are			00
Connect Disconnect Offline dev	vice selector			TILL
Connection Connection type	Connection type	TEX protocol	TELLMon protocol	Cloud
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Using the "*Offline device selector*" it is possible to view the settings options of the **ecoLINE PRO/MINI** device and to configure and save the settings in advance offline, without connecting the device.

If you want to view the settings options of an **ecoLINE** device model, or to configure and save settings without connecting the device, click on the arrow found next to the

"*Offline device selector*" the desired device model from the drop-down menu,

and then click on the "*Offline device selector*" button to load the settings options of the selected device model.

4.1.2 Connection type

ecoLINE PRO programming soft	ware					000
Connect Disconnect Change In	? nstaller password	*? Change Superadmin password	Firmware update	Restart the device	to the settings	TELL
Connection 💎	Connectio	on type 🔞				
Connection type		ų.				\bigcirc
the second se		USB	TEX protocol	TE	LLMon protocol	Cloud
	Connection pa	arameters				
	Device passwo	ord				
manager and a second se	****					
	Details					
	Date/Time	▼ Event				
	> 2021. 07. 28	. 14:17:28 Connected				
	2021. 07. 28	. 14:17:27 Superadmin level acce	ess			
	2021. 07. 28	. 14:17:27 ecoLINE PRO				
	2021. 07. 28	. 14:17:27 Successful device ider	ntification, device ID: 6	8:27:19:04:25:94		
the second se	2021. 07. 28	. 14:17:27 Connecting				
	2021. 07. 28	. 14:17:01 Connection type: USB	3			
10000						
and the second s						
-						

In the "*Connection type*" menu the type of connection can be selected (USB or different options for connecting over the Internet), information can be seen about the connection process, and the installer and superadmin password can be changed. The default superadmin password is **1234**. If you wish to use the installer level access as well, for this the password should be configured separately by clicking on the "*Change Installer password*" button.

Details: in this window you can follow the connection progress.

Available options:

- Change Installer password:
 - \mathbf{r} The installer level password can be changed after clicking on this button.
- Change Superadmin password:
 - The superadministrator level password can be changed after clicking on this button.

and ging the super-	admin password	
Actual password	New password	Confirm new password
<u> </u>		

Enter the actual password, then the new password and its confirmation, then click "*OK*". The password should consist of at least 4, but not more than 8 characters. Accepted characters are numbers (0...9), lower case letters (a...z), and capital letters (A...Z). Attention! The following characters should not be used: $^{\sim} < ^{\circ} = |$ \$ % " '.

• Updating the firmware:

By clicking on the "*Firmware update*" button, the firmware of the device can be updated. Clicking on the button, opens a pop-up window, where you can browse the firmware file with the **.tf4** extension. When firmware upload is finished, the progress window closes automatically and 5 seconds later the device restarts with the new firmware.

• Restart the device:

 $\{0\}$ If necessary, you can restart the connected device by clicking on this button.

Restore factory default settings:

By clicking on this button, you can restore the factory default settings in the device. Restoring the factory default settings will erase the actual settings, therefore please save your settings if needed. The reset process may take more than 1 minute and involves a device restart. Wait until the device restarts and the **STATUS** LED on the device shows activity again.

The option of restoring the factory default settings is also available when you connect to the device without entering the device password. Restoring the factory default settings will be refused by the device if the "*Disable factory reset*" option has been enabled in the settings, in the "*Functions and permissions*" menu. In this case, the software will show an error message about that, after the information message shown right after the confirmation. If you have forgotten the superadmin password, and the "*Disable factory reset*" option has been enabled, only the manufacturer can restore the factory default settings in the service center.

4.1.3 Device register

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¥.	ų.	5	Ę					B						
Connect	Disconnect	Update list	Quick connect	Create deskto	p shortcut	Add new	Edit	Clone	Delete					
			Destaura											
Con	nection		Device reg	lister										
			*											
🖲 De	vice register		* Device name		Device ID		TEX gr	oup ID/de	vice ID	SIM ide	entifier (ICCID)	Device phone num	iber (Comment
1.1			7					CIO	nere for filtering	g opuons:	!			
			Cloud (ecol	INE PRO)										
_		-	> ecoLINE P	RO Demo	68:27:19:0	04:25:94								
			MVP.next		60.07.40.4									
			ecol INE P	RO Demo 2	66:27:19:0	14:25:94	011/2	0						
			TELLMon	RO Dellio 2			011/3	56						
			ecol INE P	RO Demo 3	D8:80:39:	88:1C:28								
			COLINET											
					Device	_)		
					Device	e data								
					Device	e name		Devic	e ID		Server/Receiver			
					ecoLI	NE PRO Dem	0	68:2	7:19:04:25:94		Cloud (ecoLINE	PRO)		
					Devio	e password		Confi	rm device passw	ord				
					****			****]			
					SIM id	lentifier (ICCI	ID)	Devic	e phone number					
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The device register serves for storing and easy handling of device contact details used for remote programming. You can add new device contact details to the database and also edit, delete and clone entries for easy adding of devices with similar contact details.

When connecting remotely, you can easily select by name the device you wish to connect to, using the "*Device name*" drop-down menu, from the devices added to the database. You can also connect remotely to a device directly from the device register, by selecting the device, and then

clicking on the *Quick connect* \mathbf{T} button.

You can use the "*Create desktop shortcut*" button to create a shortcut on your desktop for the device selected in the device register. The shortcut will open the software and will initiate a remote connection to the given device automatically.

If you enter new device contact details in the "*Connection type*" menu, the program will add this automatically to the device register database using the device ID as device name, which you can change later by editing the given record in the device register. The database is stored locally on the computer.

If needed, you can import a database exported from an earlier version of the program using the **MMTool** software that can be installed together with the programming software. The **MMTool** software is included in the programming software setup package and can be selected for installation in the setup wizard.

If your devices are connected to an MVP.next server and you have a registered MVP.next remote monitoring account, it is possible to read and save the data of your devices automatically in the device register. You can find the details on this in chapter "<u>Server register</u>".

Function buttons available in the "*Device register*" menu:

: update the records from database
: quick remote connect to the selected device
: create a shortcut on the desktop, used to connect immediately to the selected device
: add new device
: clone entry (duplicate)
: edit entry
: delete entry

Data stored in the device register:

Device name: custom device name

Device ID: the unique device identifier, which is burned-in during production, and therefore it cannot be changed. If the device is connected via USB, the software will read the device ID automatically from the device and will paste the data in this field when you add a record with new device contact details. If automated reading fails, you can enter the device ID manually or copy it from the "*Status monitoring*" menu.

Server/Receiver: you can configure multiple remote contact details for the same device (Cloud, TELLMon, MVP.next, TEX-MVP), according to what type of server or receiver the device connects to. The contact details of the servers or receivers should be recorded in advance in the "*Server register*" menu, and then, in this drop-down menu you can choose from the servers and receivers recorded there, to associate with the given device. If a device is available on multiple servers or receivers, and you want to record the contact details of the given device for all these, you can do this by adding separate records, and selecting the appropriate server or receiver for each record.

Protocol (for the MVP.next server only): select the communication protocol used by the device (TELLMon or TEX). The SIA DC-09 protocol is not available because the SIA DC-09 does not support remote programming.

TEX group ID (for the TEX protocol only): the CMS identifier configured in the device settings, necessary for the TEX protocol. The format of the TEX device ID is: **FFF** (3 hexadecimal characters).

TEX device ID (for the TEX protocol only): the TEX identifier configured in the device settings, necessary for the TEX protocol. The format of the TEX device ID is: **FFF** (3 hexadecimal characters).

Device password/Confirm device password: the superadmin or installer password configured in the given device, depending on which one you want to use for connecting to the device.

SIM identifier (ICCID): the identifier of the SIM card installed in the device. If the device is connected via USB, and the SIM card is installed, the software will read the ICCID automatically from the device and will paste the data in this field when you add a record with new device contact details. If automated reading fails, you can enter the ID manually, or copy from the "*Status monitoring*" menu. The ICCID has no specific function, it's purpose is informational.

Device phone number: in this field you can enter the phone number of the SIM card installed in the device. It has no specific function, it's purpose is informational.

Comment: in this field you can enter custom comments related to the given device

4.1.4 Server register

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Connect	Disconnect	Update list	Re	ad MVP.next devices	Add new	Edit	Clone	Delete					a di seria berber
			~										
Con	nection		5	erver register									
			*	Server/Receiver name			Server/	Receiver address		Charles and the	Port	Comment	
			7	-1 1				Clic	k nere for	Titering optic	ons!		
🔘 Se	rver register		Н	Cloud (ecol INE PRO)			52, 30, 1	09.179			2020		
_			Н	MVP.next			52.50.1	03.175			2020		
-		100	>	MVP.next			central1	.mvpnext.com			18010		
				TELLMon									
			μ	TELLMon			185.42.	38.160			3535		
													_
					Serve	r/Receive	er	_	-				
					Cor	ntact deta	ails						
					Ser.	vor /Docoi				Turne			
					ТЕ		iver name			TELLMon			
					Ser	vor/Docei	ver addre	.cc	Port	Protocol			
					18	5 42 38 1	60		3535	TELLmon	-		
						mont			0000	TEEEmon			
						linent							
											(Save Cancel	

The server register is used for storing the contact details of the monitoring servers and receivers and to facilitate quick remote connecting to the devices. In the "*Server register*" menu you can record your monitoring servers and receivers, and then you can associate them with your devices in the "*Device register*" menu, when recording the contact details of your devices. You can add new server or receiver contact details to the database, and also edit, delete, and clone entries for easy adding of servers or receivers with similar contact details.

If you are using the device in in a private network, where there is no option to enable access to the cloud server, the program offers an option to add custom cloud contact details here in the "**Server register**" menu. This can be an IP address and port number available in the given private network, which you can then select as the default cloud server in the device settings, in the "**Functions and permissions**" menu. Thus it is not necessary to enable access to the cloud server in the private network, just configure port forwarding from the chosen IP address and port number to the cloud IP address and port number (**52.30.109.179:2020**).

Function buttons available in the "Server register" menu:



Data stored in the server register:

Server/receiver name: custom server or receiver name.

Type: the server or receiver type (Cloud, TELLMon, MVP.next).

Server/receiver address: the IP address or domain name of the server or receiver.

Port: the communication port number of the server/receiver.

Protocol (for the TELLMon receiver only): the communication protocol used by the receiver (TELLMon or TEX). If there are devices connected to the receiver in a mixed way, through both protocols, it is necessary to add the receiver with both protocols separately in the register to access all devices.

Company ID (for the MVP.next server only): the registered company ID is required only for the MVP.next server.

Client username (for the MVP.next server only): the username configured for the "*Programming software*"-type client application on the MVP.next server's user interface (see details below).

Client password/Confirm client password (for the MVP.next server only): the password configured for the given client username on the MVP.next server's user interface (see details below).

Comment: in this field you can enter custom comments related to the given server or receiver.

Remote access of devices via the MVP.next server:

If your devices are connected to an MVP.next server and you have a registered MVP.next remote monitoring account, it is possible to download and save the data of your devices automatically in the device register.

Through the MVP.next server it is only possible to download the data of your devices, and access your devices remotely with a registered programming software (client application). Therefore, it is necessary to register your programming software as follows:

- Sign in into your MVP.next account on the server's user interface.
- Add a "*Programming software*"-type client application with a unique username and password in the Settings->Client applications menu.
- Associate the client application with the desired device group or groups that contain the devices you want to access remotely.
- Add an "*MVP.next*"-type server in the server register, in the programming software, and enter the company ID of your MVP.next account and the username and password configured for the registered "Programming software"-type client application.

erver/Receiver			
Contact details			
Server/Receiver nar	ne	Туре	
		MVP.next	•
Server/Receiver add	lress		
Company ID	Client username	Client password	Confirm dient password
Comment			
			Save Cancel

• To download the data of your devices from the server, select the added server in the list

by clicking on it, and then click on the "*Read MVP.next devices*" button. If the provided credentials are correct, the program will download the device list along with the data of your devices and will save them in the device register. After a successful device list download it is possible to connect remotely to your devices in the "*Connection type*" menu, after selecting the appropriate protocol button (TELLMon or TEX).

Attention! You can use the registered client username and password in any other programming software that supports the MVP.next, but you can connect to the server with one software only at the same time, using the same username. If you want to use more than one programming software simultaneously, you need to register each software separately as client-type programming software on the server, with different usernames.

4.2 Device settings menu

You can configure the device settings in the submenus available in the "Device settings" menu.

• **Changing the device settings**: To change the device settings, reading the settings stored in the device is needed, which is done automatically after connecting to the device. However,

you can also read the settings manually anytime by clicking on the "*Read*" to button in any submenu under the "*Device settings*" menu group. Writing the new settings into the device

using the "Write" Solution is not possible until the settings are read. After making changes

in the settings, write the settings into the device by clicking on the "*Write*" button. The program will warn you to write the settings when leaving a page where changes have been made.

• **Overwriting the device settings**: If you want to completely overwrite the settings, you can import and write data from a previously made system backup. To create a system backup file,

configure the desired settings in the submenus, and then click on the "*Save to file*" button in the "*General*" device settings menu. You can import the saved backup into the program using the "*Load from file*" button, and then write imported settings into the device by clicking on the "*Write*" button. This is useful when you want to configure many devices with the same settings.

4.2.1 General

😭 ecoLINE PRO programming softwa	are	000
Connect Disconnect Read Wri	te Saveto file Load from file	-
and the second s	General settings	
in the second second	SIM settings	
terms report	Modem PIN code APN APN user name APN password Operator selection Network selection	
the second second	Enable 🔽 📃 Enable 🔽 🛕 Automatic 🔽 🛕 Automatic	
Device settings	Ethernet settings	•
Ceneral	IP address allocation Static IP address Default gateway Subnet mask Primary DNS server Secondary DNS server	
General	Static IP address	
Trans.	Identification	v
10000	User account ID	
Territory and an end	1234	
	Primary remote monitoring server	•
Manager and State of	Name Protocol Alarm system user account ID IP address Port Supervision message interval Time zone	
	SIA IP (DC-09) 📉 Keep 🔽 9999 60 s UTC 💌	
	SIA user account ID AES key	
and the second s	Send each message in a new session	
	Secondary remote monitoring server	V
-	Name Protocol Alarm system user account ID IP address Port Supervision message interval Time zone	
	TELLMon 🔽 Keep 🔽 3535 60 s UTC 💌	
	Serial port	
	Baud rate Parity Stop bits	
	9600 None 1	
	Region settings	V
	Time zone	
	(UTC +01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague	

In this menu you can configure the general settings of the device.

Available options:

• Reading the settings from the device:

To read the settings from the device click on the "*Read*" button. This will read all settings in all menus.

• Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

• Saving settings to file:

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- To save all device settings to file click on the "*Save to file*" button.
- Loading settings from file:



To load saved settings from file click on the "Load from file" button.

• Link remote serial port:



This button is only available when connected remotely. Clicking on this button, you can create a serial data connection between the device's RS232 or TTL port and the selected PC communication port (e.g., for remote programming of an alarm control panel connected to the serial port of the device). Clicking on this button again, you can close the serial data connection. For using this function to remotely program an alarm control panel, a third-party software is required (e.g., com0com) that can create a linked pair of virtual serial ports. Data flow (functional check) is indicated by the two blue (RX / TX) status indicators showing up next to the serial port settings.

Link serial port			
Select PC serial	port		
0.000	0 000	Serial port	
O COM1	COM6	Baud rate Parity	Stop bits
О СОМ13	О СОМ7	9600 None	
	OK Cancel		

Please note that after you make changes, you must write the settings into the device to be applied. For this, click on the "*Write*" button.

SIM settings:

Modem (only the product variant with an Ethernet port): you can enable or disable the use of the 4G modem with this setting. If you don't want to use the device with a mobile connection and no SIM card will be installed in the device, choose the "*Disable* option".

PIN code: if you want to lock the SIM card with a PIN code, enter in this section the PIN code of the SIM card installed in the device and enable PIN code request on the SIM card using a cellphone. Otherwise, disable PIN code request on the SIM card. If the wrong PIN code has been entered, the device will try the code only once each time the code is changed in the settings and PIN code error message will be shown in the system logs. After an unsuccessful attempt, the device will delete the wrong PIN code in the settings, after that it may restart depending on the type of the modem, and then the "PIN code need!" message will be shown in the system logs. If you experience this, enter the correct PIN code. If the wrong code is configured 3 times consecutively, the SIM card will reach the PUK code request stage. In this case install the SIM card into a cellphone, unlock the card by entering the PUK code when requested, and configure the valid PIN code in the device settings.

APN: the access point name necessary to connect to the Internet. The device attempts to set the APN automatically from the mobile operator. If automatic setting fails (the device does not get an IP address – you can check this in the "*Status monitoring*" menu), you can also configure the APN manually in this field. When left blank, the device will use automatic APN setting (restarting the device is necessary after changing the APN settings). The APN is available on the website of the mobile service provider.

Note: If automatic APN setting fails and the APN is not set manually either, the device will not be able to connect to the Internet and thereby it cannot operate.

APN user name: necessary only if the mobile service provider provides this and requires its usage for the given APN.

APN password: necessary only if the mobile service provider provides this and requires its usage for the given APN.

Operator selection: using this drop-down menu, you can select a mobile operator available with the given SIM card. For getting the list of available operators, choose the "**Search...**" option in the drop-down menu, which will start the operator search. To perform the operator search, the device will restart the modem and will reconnect to the mobile network. The search process may take up to 3 minutes. The end of the process will be indicated by a pop-up message, after which the list of available operators will be updated automatically in the "**Operator selection**" drop-down menu according to the search results.

If you select and set an operator, the device will use solely the selected operator's network. Please note that the search may also result operators which are not supported by your SIM card. If you accidentally select an unsupported operator, the device will use the default operator chosen automatically.

In the list of available operators, the program will indicate which networks (2G/3G/4G) of the given operators are available with the given SIM card, in the given location and with the given product model (it depends on the type of the modem).

The default setting is the "*Automatic*", i.e. the device will automatically choose the operator preferred by the given SIM card.

Operator 🔺	2G	3G	4G
Automatic			
Search			
Telekom HU	\checkmark		\checkmark
Telenor HU	\checkmark		\checkmark
vodafone HU	✓		✓

Network selection: mobile network management is automatic by default in the device. If you experience problems with the stability of the mobile network in the given location, i.e. the device switches frequently from one network to another, you can select manually the network you wish to use.

Available options:

- Automatic: the device will select the network automatically.
- **2G only**: use 2G (GPRS) network only.
- **3G only**: use 3G (UMTS) network only

Do not select this option for the **A7682** modem, as it does not support 3G technology! You can check the modem type in the "*Status monitoring*" menu.

• 4G only: use 4G (LTE) network only

Ethernet settings (only the product variant with an Ethernet port):

In this section you can configure the Ethernet network interface settings.

IP address allocation:

- **DHCP**: requesting and applying network settings automatically.
- Static IP-address: using a fix IP address and configuring the network settings manually.

If you have selected the "*Static IP address*" option in the "*IP address allocation*" section, the following network settings become available:

Static IP address: you can configure a static IP address for the device in this section.

Default gateway: the default gateway IP address.

Subnet mask: the applied subnet mask.

Primary DNS server: the IP address of the primary DNS server.

Secondary DNS server: the IP address of the secondary DNS server.

Identification:

User account ID: the user account ID necessary for Contact ID reporting to CMS. The events and, if using the TELLMon or TEX protocol, the supervision messages are also sent using the user account ID configured in this section. The user account ID length is 4 hexadecimal characters and the following characters can be used: 0..9, A, B, C, D, E, F.

The device can replace the user account ID in the messages received from the connected alarm control panel automatically with the identifier configured in this section. If you want to use this feature, choose the "*Replace*" option for the "*Alarm system user account ID*" setting in the remote monitoring server settings sections

Note: the user account ID and server settings are only needed if reporting to CMS is used.

Primary remote monitoring server:

In this section you can configure the primary monitoring server or receiver contact details.

Name: CMS server or receiver name. The name entered in this section is used for identification of the server/receiver within the program.

Protocol: select the appropriate communication protocol for the given server or receiver from the drop-down menu. Each protocol uses the TCP network protocol.

Available protocols:

- TELLMon (custom TELL protocol for the TELLMon receiver and the MVP.next server);
- TEX (custom TELL protocol for the TEX-MVP and the TEX BASE/PRO servers);
- **SIA IP** (SIA DC-09 protocol for other receivers that support this protocol. Not recommended for servers and receivers developed by TELL!).

Alarm system user account ID: .in this section you can configure, how the device should handle the user account ID set in the connected alarm control panel, in the messages forwarded to the alarm monitoring station.

Available options:

- **Keep**: the device will forward the user account ID set in the alarm control panel unchanged, along with the messages, to the given server or receiver.
- **Replace**: the device will automatically replace the user account ID in the messages received from the alarm control panel, with the identifier configured in the "*User account ID*" section.

IP address: CMS server or receiver IP address. When a SIM card with a private APN is used, and the given server or receiver is not in the same APN, it is necessary to open the private APN to access the given server/receiver IP address.

Port: CMS server or receiver communication port number.

Default port numbers (TCP):

- TELLMon protocol: 3535
- TEX protocol: 3333
- SIA IP (DC-09) protocol: **9999**

Supervision message interval: in this section you can configure the supervision message sending interval, which can be configured from 30 to 86400 seconds for the SIA IP protocol, 30 to 600 seconds for the TELLMon protocol, and 60 to 600 seconds for the TEX protocol.

Time zone: in this section you can select whether the given server or receiver sends the timestamp used for synchronizing the system time in **UTC** or **local time**. It is important to select the appropriate option for each server and receiver, since if the system time is set incorrectly, events will be stored with the wrong timestamp.

SIA user account ID: in case of using the *SIA DC-09* protocol, supervision messages are sent to CMS using the user account ID configured in this section. The length of the SIA user account ID is 1 to 6 hexadecimal characters, and the following characters can be used: 0..9, A, B, C, D, E, F. Do not fill in the account ID section with zeros!

AES key: the custom AES encryption key can be used for SIA IP protocol only. If an encryption key is configured, the SIA IP packages will be encrypted with the given key and they have to be decrypted on the receiver side using the same key. The maximum length of the AES key is up to 16 characters, or up to 32 characters in case of using hexadecimal format.

Send each message in a new session: if required for the given receiver, in case of the *SIA DC-09* protocol it can be enabled to send each message in a new TCP session.

TEX group ID: the CMS identifier in hexadecimal format. This is only required if the *TEX* protocol is used for reporting to CMS. If you do not possess this identifier, please contact your reseller.

TEX device ID: the device identifier in hexadecimal format. This is only required if the *TEX* protocol is used for reporting to CMS. The length is 3 characters and the following characters can be used: 0...9, A, B, C, D, E, F.

Secondary remote monitoring server:

In this section you can configure the secondary or backup monitoring server or receiver contact details. The configuration options are the same as those for the primary server.

Serial port:

In this section you can configure the transparent RS232/TTL serial port settings. The serial port on the device enables transparent data communication between the device and the **Remote Serial Client** software developed for this purpose, or the **ecoLINE PRO** programming software. The purpose of the serial port is to enable remote programming of the alarm control panel connected to the device, over the Internet. Configure the settings according to the requirements of the device (alarm control panel or other device) connected to the serial port of the **ecoLINE PRO/MINI**.

Available options: baud rate, parity and stop bits.

You can find further help on how to configure the serial port for use with the most popular alarm systems, in paragraph "*Remote programming of alarm control panels*".

Region settings:

Time zone: using the drop-down menu you can select the time zone according to the location of installation. The device sets the system time according to the selected time zone. If the setting is wrong, there will be a difference between the system time and the local time, which affects the timestamps of the events.

Automatic daylight saving: the system manages daylight saving automatically in accordance with the configured time zone.

窖 ecoLINE PRO programming software									
Image: Connect Disconnect Read Image: Connect Read									
Manager and Colored States	Inputs								
	Identifier	Input type	Sensitivity	Restore sensitivity	Event code	Partition	Zone	Reporting to monitoring station	
	IN 1	NO	500 ms	500 ms	130	01	001		
	IN2	NO	500 ms	500 ms	120	01	002	✓	
	IN3	NO	500 ms	500 ms	130	01	003		
	IN4	NO	500 ms	500 ms	130	01	004		
Inputs		Input In Ic Re	put properties dentifier Input typ N1 NO emote monitoring setti Event code Pari 2 130 01	e Sensitivity 500 ms (= 0,5 seconds ings tition Zone 001 Enable	Restore sensit	ivity 500 ms (= 0, - itoring station OK	5 seconds)		

In the "*Inputs*" menu you can configure the default state of the 6 contact inputs, input activation and restore sensitivity, the event code, partition and zone number used for reporting to a remote monitoring station, and you can also enable or disable reporting of input events to a monitoring station.

You can enable Push message sending about input events in the "*Mobile devices*" menu. The text of Push messages can be configured for each input separately in the mobile application.

Available options:

- Reading the settings from the device:
 - To read the settings from the device click on the "*Read*" button. This will read all settings in all menus.
- Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

• Editing input settings:



To edit the settings of the selected input click on the "*Edit*" button.

Please note that after you make changes, you must write the settings into the device

to be applied. For this, click on the "Write" 🏁 button.

Input properties:

Identifier: the identifiers of the inputs cannot be changed. They are used to identify the inputs in the program.

Input type: you can configure an input as normally open (NO) or normally closed (NC).

When set to **NO**, an input event will be generated when the open contact between the given input (**IN1**...**IN6**) and the **GND** terminal is closed.

When set to **NC**, an input event will be generated when the closed contact between the given input (**IN1**...**IN6**) and the **GND** terminal is opened.

Sensitivity: state changes of the input shorter than the value entered in this section regarding activation of the input are ignored by the device. The value can be configured from 200 milliseconds (0.2 seconds) to 60000 milliseconds (60 seconds).

Restore sensitivity / Unit of measure: state changes of the input shorter than the value entered in this section regarding restoration of the input are ignored by the device. device. The value can be configured from 200 milliseconds (0.2 seconds) to 60000 milliseconds (60 seconds).

Remote monitoring settings:

Event code: in this section you can configure the 3-digit Contact ID event code, which you want to assign to the given input (e.g. 130 = burglar alarm). The event code consists of hexadecimal characters (0..9,A,B,C,D,E,F). The device associates the event type (new event / restore) to the event automatically, based on the configured input type (NO/NC) and the input state.

The software includes a built-in event code search tool, which contains the list of standard Contact ID codes. The search tool can be opened by clicking on the ? icon with the question mark symbol, placed in front of the event code input field.

Event code search		(
Event name	Event code	
	(J
Access reader disable	501	
24-hour non-burglary	150	
24-hour non-burglary	160	
24-hour zone bypass	572	
24 Hour (Safe)	133	
32-hour event log marker	629	
AC loss	301	
Battery test failure	309	-
Battery missing/dead	311	•
(OK Cancel)

In the event code search tool you can search for events by name or by event code. For searching by name, start typing the name of the searched event code in the field under the "*Event name*" column header. For searching by event code, start typing the searched event code number in the field under the "*Event code*" column header. The search tool will filter the list automatically according to the hits. You can select an event code by clicking on it in the list, and then the program will paste this automatically into the event code input field, after clicking on the "*OK*" button.

Partition: in this section you can configure the 2-digit partition number from 00 to 99, which you want to assign to the given input.

Zone: in this section you can configure the 3-digit zone number from 000 to 999, which you want to assign to the given input.

Enable reporting to monitoring station: using this checkbox, you can enable or disable reporting of events generated by the given input to the remote monitoring station.

4.2.3 Output

窖 ecoLINE PRO programming softw	iare O	00
Connect Disconnect Read We		L
	Output	
Conception Conception	Control by mobile app	▼
the same regions.	Output control mode Output parameter settings Controlled partition	
the stand balance	Monostable mono, 1500 Edit 01	
Device settings	Monostable	
Output		
1000.00.00		
The state of the s		
and the second sec		
Management and Color		
1000		
and a		

In this menu you can configure the control mode of the device's relay output. The output can be solely controlled using the mobile application. When controlled by a user, the output will operate according to the configured control mode.

The output can be used to arm and disarm the connected alarm system using the mobile application, if the given alarm system supports arming and disarming by an external dry contact. Apart from this, the output can be used for other control purpose too, considering the load rating.

Available options:

• Reading the settings from the device:

To read the settings from the device click on the "*Read*" button. This will read all settings in all menus.

• Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

Please note that after you make changes, you must write the settings into the device to be applied. For this, click on the "*Write*" button.
Control by mobile app:

Output control mode: in this section you can configure the control mode of the output (or the selected output 1 or 2 in case of the IN4.R2 model). Available options:

- **None**: the output will not be used.
- **Monostable**: the output will be activated for the time configured in the "*Duration*" section of the output parameter settings, then it will revert to normal state automatically. The duration can be configured from 100 milliseconds to 10 minutes.

Output parameter settings: in this section you can configure the duration of the control impulse. Click on the "*Edit*" button to open the parameter configuration window.

Controlled partition: the contact output can be used to arm or disarm one partition of the alarm system. In this field you can configure the number of the partition you want to control. The device will monitor the configured partition only, and a status change will occur in the partition status indicator found in the device and in the mobile application, only if arming or disarming occurs specifically in the configured partition.

In case of a non-partitioned alarm system, the partition number may be 00 or 01, depending on what partition number the alarm system sends in the Contact ID reports (you can check this in the system logs found in the *Status monitoring* menu, when the alarm system reports an arming or disarming event, e.g. CID: 1234183401<u>01</u>0010).

😰 ecoLINE PRO programming softv	vare					0 🔴 🔴
Connect Disconnect Read W	/rite Add new	Edit Clone	Delete		T	:LL
and the second s	Ademco	$4+2 \rightarrow Con$				
the second se	* Name		Ademco 4+2 event code	Contact ID event code	Partition	Zone
the second se	V V			lick here for filtering options:		
	Bulglary		11	1130	01	001
Device settings ♥			Ademco 4+2 → Contact Name Type ② New event	ID event code association Ademco 4+2 event code Contact ID event code OK Cance		

4.2.4 Ademco 4+2 \rightarrow Contact ID

The device can convert reports of an alarm system that communicates in the Ademco 4+2 Express format to Contact ID event codes, and forward the messages to alarm monitoring receivers using the protocol selected in the device settings, as well as to user mobile devices via Push messages. This menu enables you to associate the Ademco 4+2 Express event codes configured in the alarm system with the corresponding Contact ID event codes, based on which the device performs the message conversion.

Available options:

• Reading the settings from the device:

To read the settings from the device click on the "*Read*" button. This will read all settings in all menus.

• Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

• Adding a new mapping:



To add a new event code mapping, click the "**Add new**" button.

• Editing a mapping:

To edit the selected event code mapping, click the "*Edit*" button.

• Creating a copy of an existing mapping:

To create a copy of the selected event code mapping, click the "*Clone*" button. Please note that the new copy must have a different unique name.

• Deleting a mapping:



To delete the selected event code mapping, click the "*Delete*" button.

Please note that after you make changes, you must write the settings into the device

to be applied. For this, click on the "Write" 🏁 button.

Name: custom name of the event mapping. The name entered in this section is used for identification of the given event mapping within the program and in the event logs. The name must not be longer than 15 characters, and the following characters cannot be used: $^{\sim} < ^{>} = |$ \$ % " '.

Ademco 4+2 event code: in this section you can configure the 2-digit Ademco 4+2 Express event code, which you want to associate with the given Contact ID event code. The Ademco 4+2 Express event code consists of hexadecimal characters (0...9,A,B,C,D,E,F).

Type: the type of the event, which can be new or restore. In the Contact ID protocol, new events are indicated with 1 (or E), and event restores are indicated with 3 (or R).

CID event code: in this section you can configure the 3-digit Contact ID event code (e.g., 130 = burglar alarm), which you want to associate with the given Ademco 4+2 Express event code. The event code consists of hexadecimal characters (0...9,A,B,C,D,E,F).

The software includes a built-in Contact ID event code search tool which contains the list of standard Contact ID codes. The search tool opens by clicking on the ? icon with the question mark symbol placed in front of the "*Type*" drop-down menu.

Event name	Event code
Access reader disable	501
24-hour non-burglary	150
24-hour non-burglary	160
24-hour zone bypass	572
24 Hour (Safe)	133
32-hour event log marker	629
AC loss	301
Battery test failure	309
Battery missing /dead	311

In the event code search tool, you can search for events by name or by event code. For searching by name, start typing the name of the searched event code in the field under the "*Event name*" column header. For searching by event code, start typing the searched event code number in the field under the "*Event code*" column header. The search tool will filter the list automatically according to the hits. You can select an event code by clicking on it in the list, then the program will paste this automatically into the event code input field after clicking on the "*OK*" button.

Partition: in this section you can configure the 2-digit partition number from 00 to 99, which you want to assign to the given Ademco 4+2 Express event code.

Zone: in this section you can configure the 3-digit zone number from 000 to 999, which you want to assign to the given Ademco 4+2 Express event code.

Click "*OK*" to accept the changes or "*Cancel*" to quit without saving.

Adding a new event mapping:

- Click the "*Add new*" button.
- Configure the event mapping based on the above.
- Click the "*Write*" Solution to write the changes into the device.

4.2.5 Mobile devices

ecoLINE PRO programming softw	vare						000
Connect Disconnect Read Wr	ka k					т	
	Mobile devices						
Constant on the	QR code for mobile app registration	Registered mobile devices, and	notifications enabled i	n the mobile applicatio	on		
1000	(a) 2 + 4 (a)	* Mobile device nam User nam	€ ▼ Alarm system arm	ni Alarm system alarr	Input events	Other alarm syst	Forward incoming
Device settings		OnePlus A3003 Peter T	M	M			
Mobile devices	Save Print Mobile app registration password 1234						
Terror Contraction of the International Contractional Co	Enable/disable Push notifications						
	 ✓ Alarm system arming/disarming ✓ Alarm system alarm events Other alarm system events ✓ Input events 						
	Forward incoming SMS messages	1					

In this menu you can find the QR code used for registering the mobile application, you can configure the registration password requested during the mobile app registration, and you can also enable or disable the event categories for Push message sending to registered mobile devices. Users can also enable or disable notifications in the mobile application, for the event categories enabled in this menu. Thereby, they can customize notifications they want to receive on their mobile device. The device supports registration of up to 20 mobile devices. It is also possible to delete a mobile device if needed, i.e. to cancel its registration. The mobile application can be associated with the device using the QR code.

To use the mobile application, it is necessary to enable cloud usage in the "*Functions and permissions*" menu.

The device works with the *ecoLINE PRO* mobile app available for iOS devices in the AppStore and for Android on Google Play.

Available options:

• Reading the settings from the device:

To read the settings from the device click on the "*Read*" button. This will read all settings in all menus.

• Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

Deleting a mobile device:



To delete the selected mobile device, click on the "Delete" button.

Please note that after you make changes, you must write the settings into the device to be applied. For this, click on the "*Write*" button.

QR code for mobile app registration:

After installing the mobile application, you can associate the mobile app with the **ecoLINE PRO/MINI** device by reading this QR code in the mobile application and entering the registration password configured here. You can associate up to 20 mobile devices with the **ecoLINE PRO/MINI**.

If a mobile application is registered, the device can send Push messages to the given mobile device about events generated by its own inputs, and about reports received from the connected alarm system, and the device's output can also be controlled in the mobile app.

Mobile app registration password: the registration password configured here has to be provided in the mobile application when you wish to associate it with the device. The registration password length is 4 to 8 characters and only letters and numbers are accepted. Accented letters are not accepted.

Enable/disable Push notifications:

Push notification settings apply to all registered mobile devices at the same time. Notifications enabled here can be further enabled or disabled by users on their mobile device on demand. The device will not send notifications to mobile devices on event categories which are disabled in this section, neither will their settings be available in the mobile app.

Alarm system arming/disarming: enable Push message sending to the registered mobile devices about arming/disarming events of the alarm system connected to the device.

Alarm system alarm events: enable Push message sending to the registered mobile devices about alarm events of the alarm system connected to the device.

Other alarm system events: enable Push message sending to the registered mobile devices about other events (e.g. failures) of the alarm system connected to the device.

Input events: enable Push message sending to the registered mobile devices about events generated by the contact inputs of the device.

Forward incoming SMS messages: if this option is enabled, the device will forward SMS messages received by its SIM card (e.g. balance information received from the GSM service provider, in case of a pre-pay card) to the registered mobile devices in Push messages. The received SMS messages are deleted automatically after forwarding. If this option is disabled, the device will delete all SMS messages received on its SIM card without forwarding.

Messages which exceed 160 characters are delivered to the device's modem divided in multiple parts, each part as a separate message, depending on their length. Such messages will be forwarded unchanged, in multiple Push messages. Swapping or slipping of the individual message parts may occur when forwarding such messages.

Forwarding of MMS messages is not supported by the modem in the device.

Registered mobile devices, and notifications enabled in the mobile application:

Mobile devices associated with the ecoLINE PRO/MINI device are listed in this table.

Mobile device: in this field the name of an already registered mobile device is shown, which is read by the mobile application directly from the mobile device.

User name: the name provided by the user upon registering the mobile application.

Alarm system arming/disarming: the checkbox in this column shows whether the user has enabled on the given mobile device reception of notifications about the connected alarm system's arming/disarming events.

Alarm system alarm events: the checkbox in this column shows whether the user has enabled on the given mobile device reception of notifications about the connected alarm system's alarm events. **Other alarm system events**: the checkbox in this column shows whether the user has enabled on the given mobile device reception of notifications about the connected alarm system's other events (e.g. failures).

Input events: the checkbox in this column shows whether the user has enabled on the given mobile device reception of notifications about events generated by the device's contact inputs.

Forward incoming SMS messages: the checkbox in this column shows whether the user has enabled on the given mobile device reception of notifications about SMS messages received on the SIM card installed in the device.

Mobile device identifier (APP ID): the identifier of an already registered mobile device is shown in this column. This identifier is used to identify the mobile device and it is unique for each device.

Deleting a mobile device: you can delete a registered mobile device (i.e. cancel its registration)

by selecting the mobile device and then clicking on the "*Delete*" button. If you delete a mobile device, the application used on the given device will no longer access the **ecoLINE PRO/MINI** device.

4.2.6 Functions and permissions

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Connect Disconnect Read	Write	TELL
Device settings Device settings Turctions and permissions	Functions and permissions Installer access permissions Installer access permissions Image: Provide the settings Image: SIM card PIN code settings User account ID settings Remote monitoring server settings Image: Input and output settings Image: Mobile devices Mobile devices Mobile app registration password Enable/disable Push notifications Serial port settings	Y
	Restrictions SIM card lock (*) Disable factory reset (*) Cloud settings Image: Cloud settings Server Server address Server Server address Cloud (ecoLINE PRO) \$52.30.109.179 2020	▼ ▼

In this menu, you can configure the installer access permissions, the settings related to functions and restrictions, and the cloud usage settings. Only the super administrator can configure the settings in this menu.

The settings that don't have a checkmark, i.e. the ones that the Installer does not have access to, are considered protected.

Available options:

• Reading the settings from the device:



- To read the settings from the device click on the "*Read*" button. This will read all
- settings in all menus.
- Writing the settings into the device:



After changing the settings or entering new settings, to take effect, it is necessary to write the new settings into the device by clicking on the "*Write*" button. This will write the changes only, but all changes made in any menu.

Installer access permissions:

In this section you can enable or disable the installer's access to protected settings (for the user who sings in with the installer password). The installer can change only settings options which are enabled in the list.

Restrictions:

SIM card lock: if you enable this option, the device will register the ID of the SIM card installed, and will refuse to operate with any other SIM card until you disable this option.

Disable factory reset: you can lock your device with this setting, so that the factory default settings cannot be restored without signing in with the Superadmin password. If you enable this option, restoring the factory default settings will be disabled. In this case you can restore the factory default settings only after signing in with the Superadmin password and disabling this option. If you forget the Superadmin password, only the manufacturer can restore the factory default settings in the service center. If this option is disabled, the device will be unlocked and factory default settings can be restored anytime, even without signing in with a password.

Cloud settings:

Enable cloud usage: enable this option if you want to use the device with the mobile application, or if you want to access it remotely with the programming software over cloud connection. If this option is enabled, the device will connect to the server operated in the cloud by the manufacturer, and will stay connected permanently, thereby it will be available through the Internet anytime. If this option is disabled, the device will only connect temporary to the cloud when there are Push messages to send, therefore it will be essentially unavailable with the mobile application. You can also initiate a temporary cloud connection manually, by sending a request by SMS to the phone number of the device. You can read more about this in the "*Remote connecting to devices via cloud service*" paragraph. Maintaining the cloud connection and cloud usage involve use of mobile data. To ensure continuous connection and availability, the device sends supervision messages that use about **12 MB data per month** on its own.

In case of using a SIM card that uses a private APN, the given private APN should be opened at the mobile service provider to access the cloud server IP address at 52.30.109.179, port: 2020.

Server: you can select the default cloud server in this drop-down menu. If you are using the device in in a private network, where there is no option to enable access to the cloud server, the program offers an option to add custom cloud contact details in the "**Server register**" menu. This can be an IP address and port number available in the given private network, which you can then select as the default cloud server in this drop-down menu. Thus, it is not necessary to enable access to the cloud server in the private network, just configure port forwarding from the chosen IP address and port number to the cloud IP address and port number (**52.30.109.179:2020**).

Please note that after you make changes, you must write the settings into the device

to be applied. For this, click on the "*Write*" ^{SOD} button.

4.3 Device status menu

4.3.1 Status monitoring

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v ° ₀	-15 💟		
t Disconnect Toggle	output ON/OFF AT log		
	Status monitoring		
	Property	Status / Value	* Date/Time Event
	Device		2025. 05. 12. 9:10:51 D: [mainsm_proc] <mdm a=""> (11:10:51)Modem APN[1]:</mdm>
	Device ID	FC:0F:E7:CA:65:E2	internet. telekom.mncU30.mcc216.gprs, proto: IP
	Firmware version	V4.00.1.8389	2025. 05. 12. 9:10:51 D: [mainsm_proc] <mdm a=""> (11:10:51)Modem APN[8]: ms, pro IPV4V6</mdm>
	Model	EcoLine.PAGE ETH 4G	2025. 05. 12. 9:10:51 D: [mainsm_proc] <err> (11:10:51)GSM ERROR RESTORED</err>
	Partition status	Disarmed	2025, 05, 12, 9:10:52 D: [UserLevelEvObs] <erb> (11:10:52) GSM1 restore ever</erb>
	Product	EcoLinePAGE	2025, 05, 12, 9:10:53 D: [mainsm proc]
	SIM identifier	8936304321063054321	2025, 05, 12, 9:10:53 D: [mainsm_proc] <mdm a=""> (11:10:53)SMS storage size: 20</mdm>
	Simulated line status	Idle	2025. 05. 12. 9:10:53 D: [mainsm proc]
	Supply voltage	13,43 V	internet.telekom.mnc030.mcc216.gprs
	Counters		2025. 05. 12. 9:10:53 D: [mainsm_proc] <mdm a=""> (11:10:54)ppp0 start</mdm>
	Data traffic	388 B	2025. 05. 12. 9:10:54 I: [mainsm_proc] <tcpip> (11:10:54)PPP[0] starting</tcpip>
-	Device uptime	511 seconds	2025. 05. 12. 9:10:54 D: [mainsm_proc] <mdm a=""> (11:10:54)New day: counters rese</mdm>
	GSM uptime	262 seconds	2025. 05. 12. 9:10:55 D: [tcpip_thread] <ppp link=""> (11:10:55)STATE: code: 0</ppp>
	IP uptime	499 seconds	2025. 05. 12. 9:10:55 D: [tcpip_thread] <link/> (11:10:55)ip up(1):
	System time	2025. 05. 12. 11:15:11	2025. 05. 12. 9:10:55 D: [tcpip_thread] <link/> (11:10:55)ip_addr = 10.202.100.23
vice status 🛛 🔻 🔽	Network		2025. 05. 12. 9:10:55 D: [tcpip_thread] <link/> (11:10:55)netmask = 255.255.255.
	Cloud connection	Connected	2025. 05. 12. 9:10:55 D: [tcpip_thread] <link/> (11:10:55)dns1 = 84.2.44.1
tatus monitoring	Data connection type	4G (E-UTBAN)	2025. 05. 12. 9:10:55 D: [tcpip_thread] <link/> (11:10:55)dns2 = 84.2.46.1
and the second se	Ethernet connection	Connected	2025. 05. 12. 9:10:55 D: [tcpip_thread] <sysnetif> (11:10:55)System netif[1] ready,</sysnetif>
	GSM operator	Telekom HU	10.202.100.231
	GSM signal	Excellent (87%)	2025. 05. 12. 9:10:55 D: [tcpip_thread] <mdm a=""> (11:10:55)IP Ready</mdm>
	IP address	10,202,100,231	2025. 05. 12. 9:10:58 D: [UserLevelEvObs] <rmconn> (11:10:58)RemConn (re)starte</rmconn>
	LAN IP address	192, 168, 1, 117	2025. 05. 12. 9:11:41 D: [srEvObs] <tellmon1> (11:11:42)Lifesign send (90 sec)</tellmon1>
	Modem status	OK	2025. 05. 12. 9:11:42 D: [srEvObs] <tellmon1> (11:11:42)Connected</tellmon1>
	Number of connections	3 pcs	2025. 05. 12. 9:11:42 D: [MainEcoLine] <tellmon1> (11:11:42)Message sent</tellmon1>
	Inputs / Outputs		2025. 05. 12. 9:11:42 D: [srEvObs] <tellmon1> (11:11:42)ACK Response arrived</tellmon1>
	IN1	Inactive	
	IN2	Inactive	2025. 05. 12. 9:11:54 D: [srEvObs] <tellmont> (11:11:54)Disconnected</tellmont>
	IN3	Inactive	2025. 05. 12. 9:12:16 D: [srEvObs] <tellmon1> (11:12:16)Stop</tellmon1>
	IN4	Inactive	2025. 05. 12. 9:12:16 D: [srEvObs] <> (11:12:16)Start, Irq=90 sec
	INS	Inactive	2025. 05. 12. 9:12:16 D: [srEvObs] <> (11:12:16)Lifesign send (90 sec)
	ING	Inactive	2025. 05. 12. 9:12:16 D: [srEvObs] <> (11:12:16)Connected
	Output	Inactive	2025. 05. 12. 9:12:16 D: [MainEcoLine] <> (11:12:16)Message sent
	Reporting channels	ALCOVE.	2025. 05. 12. 9:12:16 D: [srEvObs] <> (11:12:16)Time: 2025.05.12 09:12:16
	TP1	Connected	2025. 05. 12. 9:12:16 D: [srEvObs] <> (11:12:16)ACK Response arrived to auth me
	17.1	Connected	2025. 05. 12. 9:12:28 D: [srEvObs] <> (11:12:28)Disconnected

The "*Status monitoring*" menu provides information on actual system status. Please note that for faster communication, some of the options are not available when connected remotely. Status information loads and refreshes automatically only when connected through USB.

The system logs are shown in the window on the right hand side, which provides information about the internal processes of the device and communication. The system logs help troubleshooting if malfunction occurs. The program saves the system logs to file automatically in the "*Logs*" folder, which you can access easily by clicking on the path link shown in the "*About*" menu in the "*Data folder*" section (the file name looks as follows: "*the actual date_module.log*"). The system logs are only available when connected via USB!

Available status information:

Device:

- **Device ID:** the unique identifier of the device (6x2 hexadecimal characters). This identifier is burned-in during production and thereby it is unchangeable. You can copy the ID to clipboard by clicking the notepad icon on the right hand side.
- Firmware version: the firmware version of the device.
- Model: the device type/model.
- **Partition status**: the status of the controlled partition in the alarm system (Armed / Disarmed). The device reads the status from arming and disarming reports sent by the alarm system. Therefore, after installation or a power loss, the device will set the correct status when the alarm system reports an arming or disarming event.
- Product: the name of the device.
- **SIM identifier**: the identifier (ICCID) of the SIM card installed into the device. You can copy the ID to clipboard by clicking the notepad icon on the right hand side.
- Simulated line status: the status of the simulated phone line.

• **Supply voltage**: value of measured supply voltage. The value is considered to be no more than indicative, and cannot be compared with a value shown by a precise measuring instrument.

Counters:

- Data traffic: data traffic since the device has last connected to the Internet.
- **Device uptime**: elapsed time since the device has been powered up.
- **GSM uptime**: elapsed time since the device has last connected to the GSM network.
- IP uptime: elapsed time since the device has last connected to the Internet.
- System time: the system date and time.

Network:

- Cloud connection: the cloud server connection status.
- Data connection type: type of actual data connection: 4G (E-UTRAN), 2G (GPRS/EGDE).
- **Ethernet connection**: the Ethernet connection status (only the product variant with an Ethernet port).
- **GSM operator**: the name of the mobile operator currently used.
- **GSM signal**: actual GSM signal level (None/Very low, Weak, Medium, Good, Excellent).
- IP address: the actual IP address of the 4G modem.
- LAN IP address: the actual local IP address of the device (only the product variant with an Ethernet port).
- Modem status: the actual status of the GSM modem. If it shows the "SIM card locked!" message, the device has been locked with a SIM card used earlier (see paragraph "<u>SIM card lock</u>". You can disable the lock in the settings.
- Number of connections: the number of active connections with servers/receivers.

Inputs / Outputs:

- **IN1...IN6**: the actual state of the contact inputs.
- **Output**: the actual state of the output (OUT)

Reporting channels:

• IP1...IP2: connection status of the configured servers and IP receivers

After connecting to the device, the following option becomes available:

• Toggle output ON/OFF:



You can toggle the output (OUT) on and off by clicking on this button. If switched on, the output remains activated until deactivated in the software or in the mobile app, or a power loss occurs.

• Query:



This button is only available when connected to the device remotely. Status information can be loaded or updated by clicking on this button. This is not needed when connected via USB, because in this case status information will load and refresh automatically.

• Enable and disable AT command logging:



The "*AT log*" button is used to enable and disable AT command logging. This serves for troubleshooting, for viewing detailed information on the operation of the modem. This option is only available when connected via USB.

4.3.2 Event monitoring

窖 ecoLINE PR	O program	ming softwa	are								00
Connect Dis	¥ <mark>⊗</mark> sconnect	Start monito	oring	Stop monitoring Sto	P pending notifications	Gave to file				TE	
_		10	Ever	nts							
			*			Event				Reporting	
			* #	Date/Time	Event	Туре	Source	Mobile device / User	Event name	Event code	IP1 IP2
			1	2020. 06. 29. 8:42:09	Other alarm system event	New event / Restore	Alarm system		Battery test failure	211218130901000	√ ~(2)
			2	2020. 06. 29. 9:45:55	Arming / Disarming	New event / Restore	Alarm system		Close by user	211218340101001	√ ~(2)
			3	2020. 06. 29. 9:46:16	Alarms	New event / Restore	Alarm system		Fire	211218111001003	√ ~(2)
_			> 4	2020. 06. 29. 9:46:25	Alarms	New event / Restore	Alarm system		Burglary	211218113001004	√ ~(2)
_			5	2020. 06. 29. 9:46:34	Alarms	New event / Restore	Alarm system		Fire restore	211218311001003	√ ~(2)
			6	2020. 06. 29. 9:46:42	Alarms	New event / Restore	Alarm system		Burglary restore	211218313001004	√ ~(2)
-			7	2020. 06. 29. 9:46:51	Arming / Disarming	New event / Restore	Alarm system		Cancel	211218140601000	√ ~(2)
			8	2020. 06. 29. 9:46:59	Arming / Disarming	New event / Restore	Alarm system		Keyswitch open	211218140901000	√ ~ (2)
			9	2020. 06. 29. 9:48:57	IN2 Alarm	New event	IN2		Panic alarm	211218112001002	√ ~ (2)
			10	2020. 06. 29. 9:48:58	IN2 Restore	Restore	IN2		Panic restore	211218312001002	√ ~ (2)
Device s	status monitoring	¢	10								
_		100	Acti	ons							
-			* Stat	US		Mobile device				Action	
-			Succ	:essful		iPhone8_1				Alarms Push	1
			1								

In this menu the device's event log can be viewed and also enables you to monitor events and reporting progress online. The device stores last 100 events in its event log memory.

You can see the events and the status of reporting to CMS in the "*Events*" window, while other actions configured and performed by events (e.g. Push message sending, output control) are available in the "*Actions*" window. To view the actions performed by an event, select the event in the "*Events*" window by clicking on it.

Available options:

• Start monitoring:

By clicking on this button the program will download the stored and will display new events as well. By clicking on the arrow next to this button, you can choose from the drop-down menu, how many events to be displayed in the list: last 10, 20 or all.

• Stop monitoring:

Suspends listing of new events. New events will not be listed until event monitoring is restarted.

• Stop pending notifications:



By clicking on this button, a command will be sent to the device to cancel pending notifications which have not been delivered yet. Notifications already in progress will not be terminated.

• Save to file:

By clicking on this button, the listed event log can be saved to file in semicolonseparated CSV format. When connected to the device remotely, the event log can be downloaded only, online monitoring is not available.

Elements of the event log:

- #: the ordinal number of events.
- Date/time: event occurrence date and time.
- **Event**: the name of the event.
- **Type**: event type (New event / Restore).
- Source: event source (Input or Alarm system).
- **Mobile device / User**: the name of the mobile device and user who generated the given event (information is shown for output control events only).
- Event name: the event name based on the default Contact ID code table.
- Event code: Contact ID event code.
- IP1...IP2: reporting to IP1...IP2 server/receiver IP addresses.

Legend of marks shown in the IP1...IP2 columns:

?	Event reporting is in progress.				
~ (2)	Secondary channel: No need to report because reporting through the primary channel was successful.				
\checkmark	Successful reporting.				
! (1)	Reporting failed (reporting failed through the primary channel, but through the secondary channel it was successful).				
! (N)	Reporting failed (a negative acknowledgement signal has been received /NAK/).				
! (A)	Reporting failed (authentication error).				
! (I)	Reporting failed (an invalid response has been received).				
! (?)	Reporting failed (no response received).				
! (S)	Reporting failed (TCP packet sending failed).				
! (B)	Reporting failed (the device has been blocked on the server/receiver side).				
! (R)	Reporting failed (server/receiver error).				
! (F)	Reporting failed (other error).				

4.4 Software settings menu

4.4.1 Settings

ecoLINE PRO programming softwa	are O O O
Connect Disconnect Restore def	ault layout
Management of	Software settings
Construction Case	User interface v
the second second	Theme
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	McSkin
And the second s	Software logs
	Extended logging for troubleshooting
1000	
Manager Market	
State on State of	
Concession of the local division of the loca	
Software settings	
Settings	
Settings	

In the "Settings" menu you can change the user interface skin and language.

Available options:

 Restore default layout: To restore the user interface default layout click on the "*Restore default layout*" button.

User interface:

Theme: the user interface appearance can be changed using this dropdown-menu. You can choose from various appearance themes.

Software logs:

Extended logging for troubleshooting: you can enable this option if you encounter issues with the software. If you enable this option, the program will record detailed logs while the system operates. The program saves the software logs to file automatically in the "*Logs*" folder, which you can access easily by clicking on the link found in the "*About*" menu, in the "*Data folder*" section (the file name looks as follows: "*the actual date*_remoter.log"). The detailed logs help the manufacturer in troubleshooting.

4.4.2 About

🕵 ecoLINE PRO programming softv	vare
Connect Disconnect	TILL
	About
Construction Case	Product
the second se	ecoLINE PRO programming software v4.0.0.2259
	Company information
Manager Market	T.E.L.L. Software Hungária Kft
1000	Data folder
	C:\Users\TELL\AppData\Loca\TELL\ecoLINE PRO v4
termina - mi	
1000.00.00	
Testine art property	
Software settings 🔹 👽	
-	
About	

In this menu you can view the contact details of the manufacturer, the version number of the programming software and the path of the data folder where the software stores the logs. By clicking on the path link, the program will open the data folder in the file manager.

5 Transparent serial port

The serial port of the product has an **RS232** and a **TTL** output connected in parallel. As the two port types are connected to a common serial port inside the device, only one of them can be used at a time. Choose the port type that is compatible with the equipment to be connected.

The serial port of the device is suitable for bidirectional transparent data transfer over the Internet. It can be used for e.g. remote programming of the connected alarm control panel or can provide a solution for remote communication of other devices or equipment which are using an RS232 or a TTL serial port. The Internet connection between the remote device or equipment and the computer is ensured by the *ecoLINE PRO/MINI* and the *Remote Serial Client* software or the *ecoLINE PRO* programming software. For this, the serial port of the *ecoLINE PRO/MINI* should be connected to the serial port of the given device or equipment, and then data can be sent to and received from the device or equipment on the PC through the virtual serial port created by the *Remote Serial Client* software.

In case of using the ecoLINE PRO programming software, the remote data connection can be

established using the *Link remote serial port* button placed in the *General* settings menu. This option also requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com), which provides the serial link between the programming software and the application you want to use.



The **Remote Serial Client** and the **ecoLINE PRO** programming software can both be used to connect to the serial port of the device, with the difference that the **Remote Serial Client** program can create a virtual port for communication, while the programming software requires third-party software that can create a linked pair of virtual serial ports.



5.1 Remote programming of alarm control panels

For remote programming, the device establishes transparent serial data communication through IP connection. To establish the remote connection between the programming software of the alarm system and the alarm control panel, you can use the *Remote Serial Client* or the *ecoLINE PRO* programming software. The chosen serial port of the *ecoLINE PRO/MINI* must be connected to the serial port of the alarm control panel, and the programming software of the alarm system connects to the virtual serial port created by the *Remote Serial Client* software.

In case of using the *ecoLINE PRO* programming software, the remote data connection can be

established using the *Link remote serial port* with button placed in the *General* settings menu. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com), which provides the serial link between the *ecoLINE PRO* programming software and the programming software of the alarm control panel.

Attention! The transparent serial data transfer works through the cloud service only. Therefore, to use this function it is necessary for the device to be connected to the cloud server.

Attention! Please note that data transfer through the serial port of the *ecoLINE PRO/MINI* may generate high data traffic, which may result in an increased data usage on the SIM card installed in the device when mobile connection is used.

Remote programming was tested with the following alarm control panels:

- Paradox EVO192, SP5500, SP4000
- DSC NEO HS2016, PC1616
- Texecom Premier, Premier Elite
- Bentel KYO 8
- Inim Ability, Smart Living
- Satel CA-10

5.1.1 Paradox alarm systems

• Installation:



Wiring diagram for Paradox alarm systems

For connecting Paradox alarm control panels, a cable with a special plug is needed, which is available under the name **E-Shift-PAR cable** in TELL's product range. Connect the bare wire end of the cable to the **TTL** port of the **ecoLINE PRO/MINI** as shown in the figure above, then connect the other end with the plug onto the alarm control panel.

• Software settings:

Configure the serial port settings in the "*Serial port*" section of the "*General*" menu, in the *ecoLINE PRO* programming software, as shown in the figure below.

For Spectra alarm control panels: Baud rate=9600, Parity=None, Stopbits=1 For EVO alarm control panels: Baud rate=57600, Parity=None, Stopbits=1

		•
Parity	Stop bits	
None	1	
	Parity None	Parity Stop bits

To establish the connection between the alarm control panel and its programming software, it is necessary to install the *Remote Serial Client* software. This client software ensures the connection between the PC and the *ecoLINE PRO/MINI* device, as well as it creates a virtual serial port for the programming software of the alarm system.

As an alternative, the remote data connection can also be established using the *Link remote*

serial port with button placed in the **General** settings menu in the **ecoLINE PRO** programming software. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com).

Remote Serial Client	-	×
TILL	E	1 💌
Virtual serial port COM6 Create port	Restore default stat	e
Serial port settings		
Port status: closed Sent: 0	Received: 0	
9600,N,8,1	Edit	
Set CTS OFF Set DSR OFF Set DCD OFF	Set RING ON	
System logs		
9:08:32 - Program started		~
1		~

Open the *Remote Serial Client* software and configure the settings in the order below:

Device ID: enter the device identifier (6x2 hexadecimal characters separated by colons) of the *ecoLINE PRO/MINI* device connected to the alarm control panel.

Using the "*Read from QR code*" button, you can also read the device ID from the image file saved from the programming software, that contains the QR code with the device ID.

Virtual serial port: enter the number of the virtual port you wish to create (e.g.: COM6).

System logs: shows information about program operation and displays data received through the serial port.

Create port: click on this button to create the configured virtual serial port, then select the created port in at the serial communication settings in the programming software of the alarm system. Please note that the **ecoLINE PRO/MINI** device must be online to create the virtual serial port.

Example for selecting the serial communication port in the **Babyware** programming software: For Spectra alarm control panels: Baud rate=9600 baud For EVO alarm control panels: Baud rate=57600 baud

	· · · · · · · · · · · · · · · · · · ·		
Automatically upload panel c	hanges to Babyware upon connection		
Programming changes			
✓ New events			
Panel status (RAM)			
O IP/Static		Serial	
IP Address	192.168.0.1	COM Port	COM6 ~
IP Port	10000	Baud Rate	9600 baud ~
IP Module Password			
○ IP/DNS		() Modem	9 mistruction
		COM Port	Kommunikációs port (COM1) 🛛 🗸
Site ID		Modem Type	
IP Module Password		* Modem init. string for Contro	ol Panel supporting 1200bps
O GPRS/Public Network		Panel Phone #	Telephone number
IP Address	192.168.0.1 🔑	Modem Response	
IP Port	10000	Advanced Test	Windows Modern Ontions
GPRS Module Password		And the second second	
Own Public IP Address	192.168.0.1	Answering Machine Override	
Call Back Port	15000	Ring Cycle Duration	0,0 🗘 Get Ring Cycle Duration
O GPRS/Static		O GPRS/Private Network	
IP Address	192.168.0.1 🔎 🔅	Call Back Port	15000
IP Port	10000	GPRS Module Password	
GPRS Module Password		SMS Initiation String	Refresh

Start connecting:

w BabyWa	re V2.9.9 - Accou	nt 3						() -		×
Eile View	Tools Events	Communication								
Accor	unts 🔂 Save	A Print 8	sh 🚯 Connect 🧑	fresh Send Co	Receive 🔺 In-Field 🌔 Tran	slate				
	Jules 🚺 🌄	Profiles - Languas	· < >)		20				
E Category	/▼ Seria	al# Q #	Volt Auto	Label	Q Location		C Manual Cor	itrols and	Status	
<										>
Legend:	Zone		O PGM Output		Tampar Trauble Papage	ad 🗖 Danasa Haman	Tasi Mada	(7) Ob	hue Llessue	nilable
	Utt / closed	On (auto) / open	On (manual) / in a	arm 🔲 Alarm Memory	Tamper/Trouble Bypass	ed 🔛 Bypass Memory	Test Mode	() Sta	tus Onav	allable
All Events		~ 1	Custom Filters	Print Events	Show Deleted Events	0				
Date+Time		Q Label	🔍 Туре	Q Location	Q Description	Additional Infor	mation 🔍 User La	bel	Q	
-										
Disconnecte	RX TX NU	M Account A	ccount 3 Operator: Adn	nin 0 Events						

Then the programming software will open the serial port and will establish the connection with the alarm control panel.

After you have finished remote programming the alarm control panel, you can delete the created virtual serial port by clicking on the "*Delete port*" button.

Remote Serial Client	-	_		×
TILL			EN	-
Virtual serial port COM6 Delete port	Rest	tore d	efault state	
Serial port settings				
Port status: closed Sent: 0	Rec	eived	: 0	
9600.N.8.1			Edit	
Set CTS OFF Set DSR OFF Set DCD OFF		Set F	RING ON	
Remote device Device ID D8:80:39:88:1A:3E Read from QR code				
System logs				
9:08:32 - Program started 9:09:49 - Create port: COM6 9:09:50 - Successfully authenticated 9:09:50 - The remote device is online				< >
1				

In case of using the **ecoLINE PRO** programming software, you can close the serial data connection using the **Unlink remote serial port** button placed in the **General** settings menu.

5.1.2 DSC alarm systems

• Installation:



Wiring diagram for DSC alarm systems

For connecting DSC alarm control panels, a cable with a special plug is needed, which is available under the name **E-Shift-D cable** in TELL's product range. Connect the bare wire end of the cable to the **RS232** port of the *ecoLINE PRO/MINI* as shown in the figure above, then connect the other end with the plug onto the alarm control panel.

• Software settings:

Configure the serial port settings in the "*Serial port*" section of the "*General*" menu, in the *ecoLINE PRO* programming software, as shown in the figure below (Baud rate=9600, Parity=None, Stopbits=1):



To establish the connection between the alarm control panel and its programming software, it is necessary to install the *Remote Serial Client* software. This client software ensures the connection between the PC and the *ecoLINE PRO/MINI* device, as well as it creates a virtual serial port for the programming software of the alarm system.

As an alternative, the remote data connection can also be established using the *Link remote*

serial port with button placed in the **General** settings menu in the **ecoLINE PRO** programming software. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com).

Remote Serial Client				-		\times
TILL					E	V 💌
/irtual serial port COM6 C	reate port		Re	estore d	efault stat	te
Serial port settings						
Port status: closed		Sent: 0	Re	eceived	l: 0	
9600,N,8,1					Edit	
Set CTS OFF Set DSR	OFF	Set DCD OFF		Set	RING ON	
ystem logs 908:32 - Program started						<u>^</u>
						*

Open the *Remote Serial Client* software and configure the settings in the order below:

Device ID: enter the device identifier (6x2 hexadecimal characters separated by colons) of the *ecoLINE PRO/MINI* device connected to the alarm control panel.

Using the "*Read from QR code*" button, you can also read the device ID from the image file saved from the programming software, that contains the QR code with the device ID.

Virtual serial port: enter the number of the virtual port you wish to create (e.g.: COM6).

System logs: shows information about program operation and displays data received through the serial port.

Create port: click on this button to create the configured virtual serial port, then select the created port in at the serial communication settings in the programming software of the alarm system. Please note that the **ecoLINE PRO/MINI** device must be online to create the virtual serial port.

Example for selecting the serial communication port in the **DLS 5** programming software:

DL8 Modem I	Manager Configuration X
Modem Pool	Properties
🔳 💼 🧇 CONEXANT 🔹	Туре
PCLINK - COM6	PCLINK V
MD-12 - COM1	Port COM6 - ELTIMA Virtual Serial Pr 🗸
	OK Cancel

Start connecting:

ion Number Search	- Q Option None Search	Q F	rogrammed Data Search	Q		
munications Status Office	Connection Office	Progress	Efficiency	State	2	
Signature Graphic						
Users						
Partitions						
2 Zones						
Event Schedule						
Communications						
System						
DLS						
PGMs						
Wireless						
Keypad						
Event Buffer						

Then the programming software will open the serial port and will establish the connection with the alarm control panel.

After you finished remote programming the alarm control panel, you can delete the created virtual serial port by clicking on the "*Delete port*" button.

Remote Serial Client	-	_		×
TILL			EN	•
Virtual serial port COM6 Delete port	Rest	tore de	fault state	
Serial port settings				
Port status: closed Sent: 0	Rec	eived:	0	
9600,N.8,1		E	Edit	
Set CTS OFF Set DSR OFF Set DCD OFF		Set R	ING ON	
Remote device				
Device ID D8:80:39:88:1A:3E Read from QR code				
System logs				
9:08:32 - Program started 9:09:49 - Create port: COM6 9:09:50 - Successfully authenticated 9:09:50 - The remote device is online				^
				~

In case of using the *ecoLINE PRO* programming software, you can close the serial data connection using the *Unlink remote serial port* button placed in the *General* settings menu.

5.1.3 Premier and Premier Elite alarm systems

• Installation:



Wiring diagram for Premier alarm systems

For connecting Premier alarm control panels, a cable with a special plug is needed, which is available under the name **E-Shift-PRE cable** in TELL's product range. Connect the bare wire end of the cable to the **TTL** port of the **ecoLINE PRO/MINI** as shown in the figure above, then connect the other end with the plug onto the alarm control panel.

• Software settings:

Configure the serial port settings in the "*Serial port*" section of the "*General*" menu, in the *ecoLINE PRO* programming software, as shown in the figure below (Baud rate=19200, Parity=None, Stopbits=2):



To establish the connection between the alarm control panel and its programming software, it is necessary to install the *Remote Serial Client* software. This client software ensures the connection between the PC and the *ecoLINE PRO/MINI* device, as well as it creates a virtual serial port for the programming software of the alarm system.

As an alternative, the remote data connection can also be established using the *Link remote*

serial port with button placed in the **General** settings menu in the **ecoLINE PRO** programming software. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com).

Remote Serial Client			×
TELL		EN	•
Virtual serial port COM6 Create po	rt	Restore default state	
Serial port settings			
Port status: closed	Sent: 0	Received: 0	
19200,N,8,2		Edit	
Set CTS OFF Set DSR OFF	Set DCD OFF	Set RING ON	
System logs 9:19:42 - Program started	Read from QR code	<u></u>	^
			~

Open the *Remote Serial Client* software and configure the settings in the order below:

Device ID: enter the device identifier (6x2 hexadecimal characters separated by colons) of the *ecoLINE PRO/MINI* device connected to the alarm control panel.

Using the "*Read from QR code*" button, you can also read the device ID from the image file saved from the programming software, that contains the QR code with the device ID.

Virtual serial port: enter the number of the virtual port you wish to create (e.g.: COM6).

System logs: shows information about program operation and displays data received through the serial port.

Create port: click on this button to create the configured virtual serial port, then select the created port in at the serial communication settings in the programming software of the alarm system. Please note that the *ecoLINE PRO/MINI* device must be online to create the virtual serial port.

Example for selecting the serial communication port in the *Wintex* programming software:

🖇 Wintex UDL	
User Accounts	Programming Communications Diagnostics Setup Window Help
New Open	Save Edit Account Program Print Receive Send Rem. Reset Diagnostics Ricordet Keypad Event Log Set Connect
Acc Ref: aaa	Name: Connect using PC-Conn(COM6) Panel: Premier 816 Version: 16.12 3
Cones	Connect using Modern (COM/2)
Partitions	Tayacam Tayacam Tayacam Tayacam Tayacam Tayacam Tayaca
🔮 Global	CLEXECOLL FEXEROLL FEXEROLL FEXEROLL FEXEROLL FEXEROLL FEXEROLL FEXEROLL
Keypads	n : Texecom : Texeco
Q Outputs	om Texecom Texecom Texecom Texecom Texecom Texecom Texe
Comms	
🕵 Users	com : Texecom : Texe
Send Update	scom : Texecom : Te
Receive Page	recom : Texecom : Te
Send Page	execom Texecom Texecom Texecom Texecom Texecom Texecom
	Texecom : Texecom
	Texecom Texecom Texecom Texecom Texecom Texecom Texecom
	Texecom Texecom Texecom Texecom Texecom Texecom Texecom Texeco
	n Texecom Texecom Texecom Texecom Texecom Texecom Texecom Texec
	The
status: Offine Read	y 1x 💗 Kx 🐨 User Name: Master 2017. 07. 11. 10:09:25

Then the programming software will open the serial port and will establish the connection with the alarm control panel.

After you have finished remote programming the alarm control panel, you can delete the created virtual serial port by clicking on the "*Delete port*" button.

Remote Serial Client			×
TILL		EN	•
Virtual serial port COM6 Del	ete port	Restore default state	
Serial port settings			
Port status: closed	Sent: 0	Received: 0	
19200.N.8.2		Edit	
Set CTS OFF Set DSR O	FF Set DCD OFF	Set RING ON	
Remote device Device ID D8:80:39:88:1A:3E System logs	Read from QR coo	le	
9:19:42 - Program started 9:20:19 - Create port: COM6 9:20:20 - Successfully authenticated 9:20:20 - The remote device is online			< >

In case of using the *ecoLINE PRO* programming software, you can close the serial data connection using the *Unlink remote serial port* button placed in the *General* settings menu.

5.1.4 Bentel alarm systems

• Installation:



Wiring diagram for Bentel alarm systems

Connect the bare wire end of the serial programming cable to the **RS232** serial port of the **ecoLINE PRO/MINI** device as shown in the figure above, then connect the other end with the D-SUB plug onto the alarm control panel.

• Software settings:

Configure the serial port settings in the "*Serial port*" section of the "*General*" menu, in the *ecoLINE PRO* programming software, as shown in the figure below (Baud rate=9600, Parity=Even, Stopbits=1):

Serial port			V
Baud rate	Parity	Stop bits	
9600	Even	1	

To establish the connection between the alarm control panel and its programming software, it is necessary to install the *Remote Serial Client* software. This client software ensures the connection between the PC and the *ecoLINE PRO/MINI* device, as well as it creates a virtual serial port for the programming software of the alarm system.

As an alternative, the remote data connection can also be established using the *Link remote*

serial port with button placed in the **General** settings menu in the **ecoLINE PRO** programming software. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com).

Remote Serial Client		- 🗆 X
TILL		EN 💽
Virtual serial port COM6 Create p	port	Restore default state
Serial port settings Port status: closed	Sent: 0	Received: 0
9600,E,8,1		Edit
Set CTS OFF Set DSR OFF	Set DCD OFF	Set RING ON
Device ID D8:80:39:88:1A:3E	Read from QR cod	e
5.12:13 - Program started		^
		v

Open the *Remote Serial Client* software and configure the settings in the order below:

Device ID: enter the device identifier (6x2 hexadecimal characters separated by colons) of the *ecoLINE PRO/MINI* device connected to the alarm control panel.

Using the "*Read from QR code*" button, you can also read the device ID from the image file saved from the programming software, that contains the QR code with the device ID.

Virtual serial port: enter the number of the virtual port you wish to create (e.g.: COM6).

System logs: shows information about program operation and displays data received through the serial port.

Create port: click on this button to create the configured virtual serial port, then select the created port in at the serial communication settings in the programming software of the alarm system. Please note that the **ecoLINE PRO/MINI** device must be online to create the virtual serial port.

Serial ports	- 🗆 ×
Control Panel	Modem
C COM 1	C COM 1
C COM 2	COM 2
С СОМ 3	С СОМ 3
C COM 4	C COM 4
С СОМ 5	C COM 5
COM 6	С СОМ 6
C COM 7	C COM 7
C COM 8	С СОМ 8
Max. Num. Attempts	Max bytes in a single frame during remote transmission 64
🗸 ок	X Cancel 7 Help

Example for selecting the serial communication port in the *Bentel Security Suite* programming software (see the figure on the right hand side).

Start connecting:



Then the programming software will open the serial port and will establish the connection with the alarm control panel.

After you finished remote programming the alarm control panel, you can delete the created virtual serial port by clicking on the "*Delete port*" button.

Remote Serial Client	_		×
TILL		EN	-
Virtual serial port COM6 Delete port	Restore (default state	
Serial port settings Port status: closed Sent: 0	Receive	d : 0	
9600,E,8,1		Edit	
Set CTS OFF Set DSR OFF Set DCD OFF	Set	RING ON	
Remote device Device ID D8:80:39:88:1A:3E Read from QR code			
9:12:45 - Create port: COM6 9:12:46 - Successfully authenticated 9:12:46 - The remote device is online			<

In case of using the *ecoLINE PRO* programming software, you can close the serial data connection using the *Unlink remote serial port* button placed in the *General* settings menu.

5.1.5 Inim alarm systems

• Installation:



Wiring diagram for Inim alarm systems

Connect the bare wire end of the serial programming cable to the **RS232** serial port of the **ecoLINE PRO/MINI** device as shown in the figure above, then connect the other end with the D-SUB plug onto the alarm control panel.

• Software settings:

Configure the serial port settings in the "*Serial port*" section of the "*General*" menu, in the *ecoLINE PRO* programming software, as shown in the figure below (Baud rate=56000, Parity=Even, Stopbits=1):

Serial port			Ψ.
Baud rate	Parity	Stop bits	
56000	Even	1	

To establish the connection between the alarm control panel and its programming software, it is necessary to install the *Remote Serial Client* software. This client software ensures the connection between the PC and the *ecoLINE PRO/MINI* device, as well as it creates a virtual serial port for the programming software of the alarm system.

As an alternative, the remote data connection can also be established using the *Link remote*

serial port with button placed in the **General** settings menu in the **ecoLINE PRO** programming software. This option requires a third-party software that can create a linked pair of virtual serial ports (e.g., com0com).

Remote Serial Client		_		\times
TILL			E	V 🔻
Virtual serial port COM6 Create port		Restore d	efault stat	te
Serial port settings				
Port status: closed	Sent: 0	Received	l: 0	
56000,E,8,1			Edit	
Set CTS OFF Set DSR OFF	Set DCD OFF	Set	RING ON	
Device ID D8:80:39:88:1A:3E System logs 14:06:12 - Program started	Read from QR code	•		^
				Ŷ

Open the *Remote Serial Client* software and configure the settings in the order below:

Device ID: enter the device identifier (6x2 hexadecimal characters separated by colons) of the *ecoLINE PRO/MINI* device connected to the alarm control panel.

Using the "*Read from QR code*" button, you can also read the device ID from the image file saved from the programming software, that contains the QR code with the device ID.

Virtual serial port: enter the number of the virtual port you wish to create (e.g.: COM6).

System logs: shows information about program operation and displays data received through the serial port.

Create port: click on this button to create the configured virtual serial port, then select the created port in at the serial communication settings in the programming software of the alarm system. Please note that the **ecoLINE PRO/MINI** device must be online to create the virtual serial port.

Example for selecting the serial communication port in the *Ability Suite* programming software, in the "*Settings / Application settings*" menu:

Application settings						_		×
🤤 Serial ports 🚔 Prir	nt settings	iscellane	ous					
Panel type	SmartLink		\sim	- Serial po	ort			
Frame length Trasmission attempt Error timeout		64 3]	COM1 COM1 COM6				
Communication type Serial								
Advanced setup for Error correction level O Correction level O Correction level O Correction level O Correction level Attention! The more error	r USB/seria able 411 424 43 43 44 44	al converter	er com	municatio	n speed.			
				V	ОК	×	Cance	el

Example for selecting the serial communication port in the *Smart League* programming software, in the "*Settings / Application settings*" menu:

Application data		x
🤝 Communication ports 🛛 🚔 Printer settings 🛛 🧑 Vari	rious	
Frame length255Trasmission attempt3Error timeout5 Sec		
Communication type Serial SmartLAN/G SmartLAN/SI Connection via GPRS	Serial port COM6 COM1 COM6	
Advanced setup for USB/serial converter Error correction enable O Correction level 1 O Correction level 2 O Correction level 3 O Correction level 4 Attention! The more error correction level the lower correction	ommunication speed.	
	🥪 OK 🔀 Cancel	

Start connecting with the *Ability Suite* programming software:



Start connecting with the *Smart League* programming software:

îîm	SmartLeague										-	٥	\times
F	ile Programming Settings Database Chec	ck control panel ?											
ļ													
Â	Start Page SmartLiving 5-15 6.0X	System Layout	Programming										Ŧ
^	Keypads (0)		g rigging and a second										
	- Proximity key-readers (0) - Expansions (0)	Keypads											-
	-Sounder (0)	(Reserved &	Internet d	TRAILING &	FRANCISCO DE	Internet d							
	SmartLiving system configuration	In North St.	the second to	(And Withouse The	And RECEIPTION TO	And Belleville and The							
		Keyp. 001	Keyp. 002	Keyp. 003	Keyp. 004	Keyp. 005							
		Proximity key-read	ers										
		Reader 001	Reader 002	Reader 003	Reader 004	Reader 005	Reader 006	Reader 007	Reader 008	Reader 009	Reader 010		
		Expansions											
				Θ	Θ	\odot					$\left \right\rangle$		
		Expansion 001	Expansion 002	Expansion 003	Expansion 004	Expansion 005	Expansion 006	Expansion 007	Expansion 008	Expansion 009	Expansion 010		
		Expansion out	Expension doz	Expansion 000	Expension det	Expension dos	Expansion out	Expension ou?	Expension doo	Expansion 665	Expansion one		
		Sounder											
		01	3	(31)	(31)	3	3	(3)	07	01	(3)		
			2				2			2	2		
		Sounder 001	Sounder 002	Sounder 003	Sounder 004	Sounder 005	Sounder 006	Sounder 007	Sounder 008	Sounder 009	Sounder 010		
E													
guratic													
config													
/stem													
/ing s													
martLi													
ŝ													

Then the programming software will open the serial port and will establish the connection with the alarm control panel.

After you finished remote programming the alarm control panel, you can delete the created virtual serial port by clicking on the "*Delete port*" button.

Remote Serial Client	-		×
TILL		EN	•
Virtual serial port COM6 Delete port	Restore de	fault state	
Serial port settings			
Port status: closed Sent: 0	Received:	0	
56000.E.8.1		Edit	
Set CTS OFF Set DSR OFF Set DCD OFF	Set R	ING ON	
System logs 14:06:12 - Program started 14:07:17 - Create port: COM6 14:07:18 - Successfully authenticated 14:07:18 - The remote device is online			<
			~

In case of using the *ecoLINE PRO* programming software, you can close the serial data connection using the *Unlink remote serial port* button placed in the *General* settings menu.

6 Arming and disarming the alarm control panel through the mobile application

It is possible to arm and disarm a partition in the connected alarm system via the mobile application, if the given alarm control panel can be armed and disarmed by potential free (dry) relay contact pulses through one of its inputs. To use this feature, follow the instructions below:

- Connect the relay output (**NO** and **COM**) of the *ecoLINE PRO/MINI* to the alarm control panel's input used for arming and disarming.
- Set the given input in the alarm control panel to arm and disarm the entire system with normally open (**NO**) pulse control.
- Configure the control mode of the device's output in the *Output* menu. Select the *Monostable* option (you can leave the pulse duration setting on the factory default value of 1500 milliseconds) and set the number of the *Controlled partition*.

After doing the wiring and configuring the settings correctly, to arm and disarm the alarm system, activate the output of the **ecoLINE PRO/MINI** in the mobile application using the button with the padlock symbol on it. Each output activation action will close the **NO** and **COM** terminals of output **OUT** for the configured period (1.5 seconds) and then it reverts to the default open state automatically. The contact pulses generated this way will arm and disarm the alarm system through the appropriate input of the alarm control panel. As soon as the alarm system reports the arming or disarming event, this will trigger the color and status change of the control button in the mobile application, which is used to indicate the partition status change.

For this function to work and to receive state messages on arming and disarming in the mobile application, reporting of arming and disarming events must be enabled in the alarm control panel, and the number of the controlled partition must be set correctly in the output settings of the *ecoLINE PRO/MINI* device.

7 Updating the firmware

TELL always releases its products with the latest firmware version. However, as our products are being continuously improved, new firmware updates may occasionally be released for the products, which may include new features along with bug fixes. Therefore, it is recommended that you always upgrade your product to the latest firmware version available. All released firmware versions are available on the TELL website, including older versions.

ATTENTION! Downgrading to an earlier version is not supported! Always upgrade your product to the latest version. Otherwise, your settings could get wiped due to differences in functionality between versions, or the product may become unusable due to unsupported components. (A newer hardware may contain new components, e.g., a new flash memory, modem, etc., which are not supported by an earlier firmware.)

You can update the *ecoLINE PRO/MINI* firmware locally via USB or remotely via the Internet. You can find the firmware file or the desktop update application needed for the update on the manufacturer's website (<u>https://tell.hu/en</u>) in the product downloads section.

7.1 Updating via USB

You can update the firmware via USB using the desktop update application or the programming software.

• Updating via USB using the desktop update application:

- Download the latest update application (that has the **.exe** extension) from the manufacturer's website. The update application includes the firmware as well, therefore the file name is the same as the firmware version number.
- The device must be powered down.
- Open the update application.
- Connect the device to the computer via USB.
- Power up the device. Do not power down the device later on!
- Wait until the progress bar shows that the process has completed.
- You can close the update application when the progress bar shows that the process has completed.
- Wait until the **STATUS** LED on the device shows activity. You can then connect to the programming software and check the functioning.

• Updating via USB using the programming software:

- Download the latest firmware file (that has the **.tf4** extension) necessary for updating, from the manufacturer's website.
- Click on the "*Connection type*" menu in the programming software.
- Click the "*Firmware update*" ^{IIII} button, and then browse the **.tf4** firmware file.
- The update process will start automatically as soon as you click on the "**Open**" button. Once the firmware is loaded, the progress window will close automatically and the device will restart a few seconds later, running on the new firmware.

7.2 Updating remotely over the internet

It is also possible to remotely update the firmware of the *ecoLINE PRO/MINI* over the Internet, using the programming software. After establishing the remote connection, the steps for remote update are the same as the steps for updating through USB, as specified above. The following methods are available for updating the firmware of the *ecoLINE PRO/MINI* device remotely:

• Updating in case that you use a **TELLMon** receiver:

- Using the programming software, via the TELLMon protocol.
- Using the programming software, via the TEX protocol.
- Using the programming software, over the cloud.
- Updating in case that you use an **MVP.next** server:
 - Using the programming software, via the TELLMon protocol.
 - Using the programming software, via the TEX protocol.
 - Using the programming software, over the cloud.
- Updating in case that you use a **TEX-MVP** or a **TEX BASE/PRO** server:
 - Using the programming software, via the TEX protocol.
 - Using the programming software, over the cloud.
- Updating in case that you use a SIA DC-09 compatible IP receiver:
 - Using the programming software, over the cloud.

8 Restoring the factory default settings

You can restore the factory default settings using the programming software.

Restoring the factory default settings will delete all settings and the event logs in the device, and will restore the factory default values, including the device password! Create a system backup if needed, before performing the factory reset.

To restore the factory default settings, click on the "**Restore factory default settings**" button in the "**Connection type**" menu. The reset process may take more than 1 minute and it will restart the device. Wait until the device restarts and the status **STATUS** LED on the device shows activity again. The option of restoring the factory default settings is also available when you connect to the device without entering the device password.

Restoring the factory default settings will be refused by the device if the "*Disable factory reset*" option has been enabled in the settings, in the "*Functions and permissions*" menu. In this case, the software will show an error message about that, after the information message shown right after the confirmation. If you have forgotten the superadmin password, and the "*Disable factory reset*" option has been enabled, only the manufacturer can restore the factory default settings in the service center.

9 Contents of the package

- ecoLINE PRO/MINI + terminal connector
- GSM antenna
- Quick start guide
- Warranty card

10 About the manufacturer

Company:T.E.L.L. Software Hungária KftAddress:4034 Debrecen, Vágóhíd u. 2., HungaryWebsite:www.tell.hu