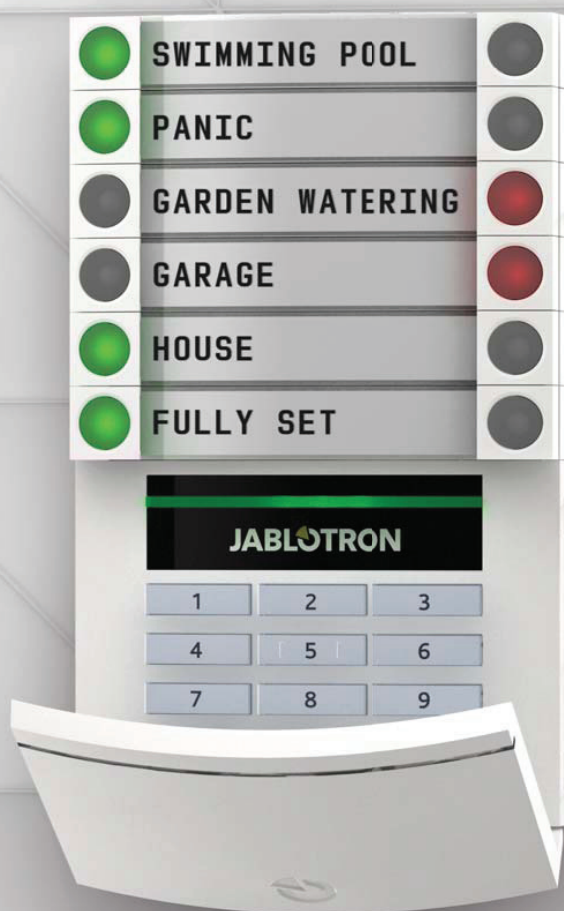


JABLOTRON 100

User manual



JABLOTRON
CREATING ALARMS

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Thank you for choosing the JABLOTRON 100 security system. This system is a unique flexible indoor solution for commercial and home security that offers the use of both wired and wireless devices. The JABLOTRON 100 is very easy to control. Simplicity of control consists of two steps, authorization with a code or a RFID tag followed by pressing an individual keypad segments with assigned function on a keypad. It's possible to use a reversed method when the "Default" system profile is enabled. Press a segment button first and then authorize. The control segments use a simple traffic light logic which everyone can understand. The number of segments can be flexibly adapted to requirements of premises. The JABLOTRON 100 offers a wide range of detectors with timeless design and can be operated from anywhere owing to complete remote control access. The J-Link program, the MyJABLOTRON web interface and the MyJABLOTRON application for smart phones allow you to control, program and monitor the system remotely.

The JABLOTRON 100 is designed for up to 300 users and it can be divided into 15 separate sections. Up to 120 detectors can be connected and the system offers up to 32 multi-purpose programmable outputs (e.g. home automation).



2. OPERATING THE JABLOTRON 100 SYSTEM

The security system can be controlled in a number of different ways. To unset the alarm, authorization in the form of user identification is always required. The system detects the identity of the users and allows them to operate those parts of the system which they have been assigned to control. You can choose from different ways of setting with or without authorization. When Standard authorization type is used, you don't have to authorize yourself because it's possible to set the system just by pressing the right segment button on a keypad. The user name, date, and time are recorded and stored in the system's memory every time the system is accessed. This information is available indefinitely. Any user can also cancel an alarm sound just by authorization in any part of the system (depending on their access rights). However, that does not automatically unset the system (unless the system's default setting is changed).

Note: Depending on the configuration of the installation and system settings, some of the options described below may not be available. Consult the configuration of the installation with your service technician.

Users and Their Access Rights

CODE AUTHORIZATION	TYPE DESCRIPTION
ARC code	<p>This code has the highest level of authorization to configure the system's behaviour and is exclusively allowed to perform the system unblock after a triggered alarm. It can enter Service mode, access all tabs with options including ARC communication to which it can deny access to a Service technician (Service code). As long as the "Administrator-restricted Service/ARC right" parameter remains unchecked, the ARC code can control all sections and PG outputs used in the system. This code enables to add more Administrators and other users with a lower level of authorization assign them with codes, RFID tags and cards. It also has a permission to erase alarm and tamper alarm memory.</p> <p>The number of ARC codes is limited only by remaining capacity of the control panel.</p>
Service code (Service)	<p>It can enter Service mode and configure the system's behaviour. It has access to all tabs with options including ARC communication unless the access is limited by the ARC technician. As long as the "Administrator-restricted Service/ARC right" parameter remains unchecked, the Service code can control all sections and PG outputs used in the system. It can create a user with ARC permission, other Service technicians, Administrators and other users with a lower level of authorization and assign them with access codes, RFID tags and cards. The number of Service codes is limited only by remaining capacity of the control panel.</p> <p>By the factory defaults, the code is 0*1010 and it can't be erased.</p>

CODE AUTHORIZATION	TYPE DESCRIPTION
Administrator (Main)	This code has always full access to all sections and is authorized to control all PG outputs. The Administrator can create other Administrator and other codes with a lower level of authorization and assign them with access to sections and PG outputs, access codes, RFID chips and cards. Has permission to erase the alarm memory. There can be only one main Administrator code which can't be erased. When "Administrator-restricted Service/ARC right" is enabled, the administrator code must be authorized as to confirm access. By the factory defaults, the code is 1*1234.
Administrator (Other)	Has access to sections selected by the main Administrator to which the other Administrator can add new users with the same or lower level of authorization to control sections and PG outputs, assign them with access codes, RFID tags and cards. Has permission to erase the alarm memory in assigned sections. When "Administrator-restricted Service/ARC right" is enabled, the administrator code must be authorized as to confirm access. The number of Administrator codes (other) is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
User	This code has access to sections and PG control rights assigned by an Administrator. Users can add/delete their RFID tags and access cards and change their telephone numbers. It has permission to erase the alarm memory in assigned sections. Users can change their codes provided that the system uses Codes with prefixes. Selected users may have their access to sections limited by a schedule. The number of User codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
Set	This code is allowed only to set a designated section. Users with this level of authorization are not allowed to change their code and are not allowed to erase the alarm memory. The number of Set codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
PG only	Allows the user to control programmable outputs with authorization only. This applies to both switching on and off. Users with this level of authorization are not allowed to change their code and are not allowed to erase the alarm memory. The number of PG only codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
Panic	This code is allowed only to trigger Panic alarm. A user of this code is not allowed to change it or erase the alarm memory. The number of Panic codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
Guard Code	This is a code for a security agency. This level of authorization allows to set the whole system. However the guard code can unset the system only during alarm or after it as long as the alarm memory is still active. A user of this code is not allowed to change it or erase the alarm memory. The number of Guard codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.
Unblocking code	This code is designated to unblock the system after System blocking by alarm. A user of this code is not allowed to change it or erase the alarm memory. The number of Unblocking codes is limited only by remaining capacity of the control panel. There is no code set by the factory defaults.

Keypad code authorization

Authorization with a user code is done by typing a valid code into a keypad or with an RFID tag.

It's possible to use **4, 6 or 8-digit codes** in the system.

The system can be configured to be used **with or without prefix codes**.

Code with a prefix: nnn*cccc

Meaning:

- nnn** is the prefix, which is number of the user's position (0 to 300)
- *** is a separator (* key)
- cccc** is a 4, 6, or 8-digit code. Allowed codes... from 0000 to 99999999

Default control panel code Administrator: 1*1234; 1*123456; 1*12345678;

Warning: The main Administrator code must start with the prefix **1**,
The main Service code starts with the prefix **0**

Prefix can be disabled for systems with a small number of users. Type of the code can be changed only by an installation company.

Code without a prefix: CCCC

Meaning:

cccc cccc is a 4, 6 or 8-digit code. Allowed codes... from 0000 to 99999999**Default control panel code****Administrator: 1234; 123456; 12345678;****The security of access codes, contactless RFID devices and remote controls**

A control panel enables each user to be assigned with one 4, 6 or 8-digit code and up to two RFID tags for system authorization. User authorization is required during each manipulation via keypad, voice menu, a computer, web or mobile apps. Code length affects number of possible combinations and therefore code security.

The number of code combinations depends on the configuration:

Control panel parameters	4 DIGITS	6 DIGITS	8 DIGITS
Using „Code with a prefix“	$= 10^4 = (10.000)$	$= 10^6 = (1.000.000)$	$= 10^8 = (100.000.000)$
„Code with a prefix“ and „Duress access control“ both disabled	$= 10^4 - (\text{Number of users} - 1)$	$= 10^6 - (\text{Number of users} - 1)$	$= 10^8 - (\text{Number of users} - 1)$
„Code with a prefix“ disabled; „Duress access control“ enabled	$\leq 10^4 - ((\text{Number of users} - 1) * 3)$	$\leq 10^6 - ((\text{Number of users} - 1) * 3)$	$\leq 10^8 - ((\text{Number of users} - 1) * 3)$
Using only an RFID card with a range of 14 characters (6 constant + 8 variable)	$= 10^8 = (100.000.000)$	$= 10^8 = (100.000.000)$	$= 10^8 = (100.000.000)$
„Code with a prefix“ and „Card confirmation with a code“ both enabled	$= (10^8 * 10^4) = 10^{12} = (1.000.000.000.000)$	$= (10^8 * 10^6) = 10^{14} = (100.000.000.000.000)$	$= (10^8 * 10^8) = 10^{16} = (1.000.000.000.000.000)$
„Code with a prefix“ disabled; „Card confirmation with a code“ enabled	$= 10^8 * (10^4 - (\text{Number of users} - 1))$	$= 10^8 * (10^6 - (\text{Number of users} - 1))$	$= 10^8 * (10^8 - (\text{Number of users} - 1))$

Ways to improve protection against guessing the valid code:

- ▶ Using a code with more digits (6 or 8-digit codes)
- ▶ More advanced types of authorization, such as “Card confirmation with a code” or “Double authorization”.

Ways of operating the JABLOTRON 100

On-site:

- ▶ System keypad
- ▶ System keyfob
- ▶ Computer using a USB cable and the J-Link software




Remotely:

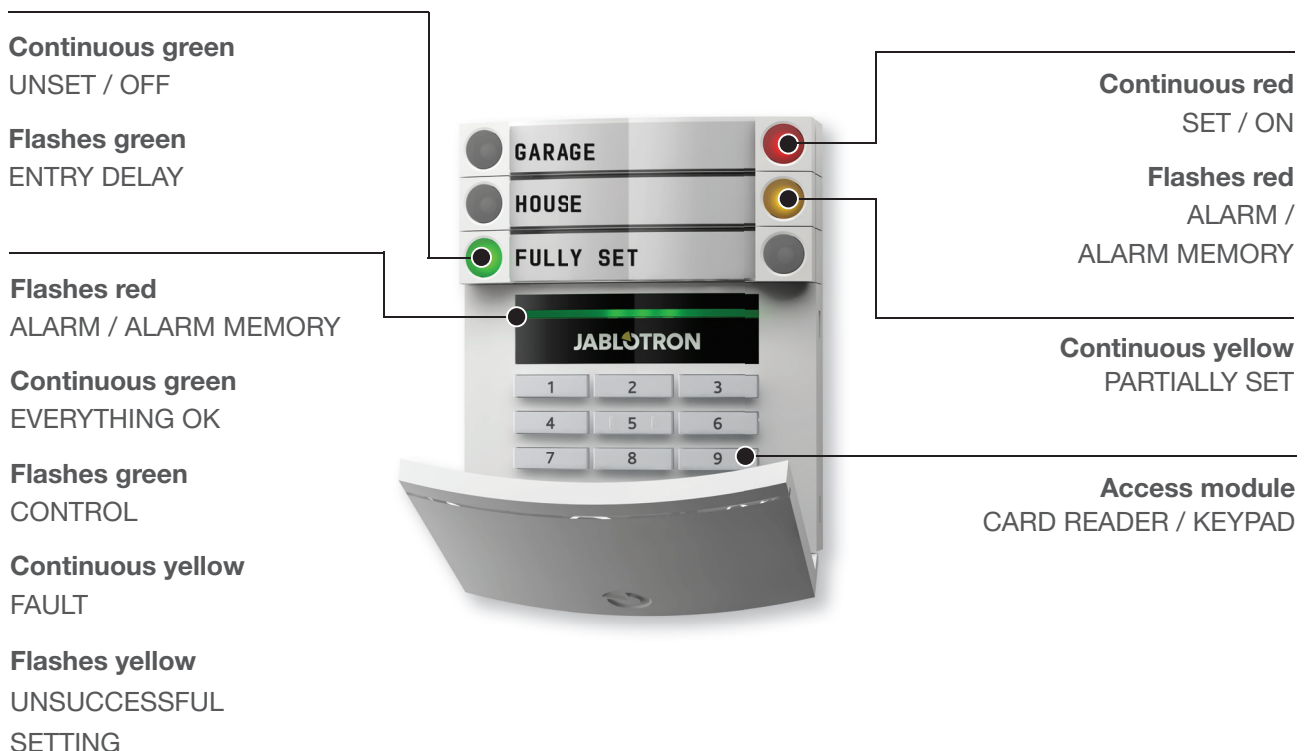
- ▶ Computer via the MyJABLOTRON web interface
- ▶ Smart phone application
- ▶ Telephone using the voice menu
- ▶ Mobile – via SMS
- ▶ Computer via the internet using J-Link
- ▶ Dialling-in from an authorized telephone number (only for operating programmable outputs)



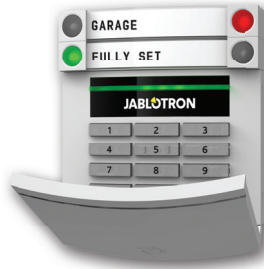
2.1 USING THE SYSTEM KEYPAD

JABLOTRON 100 system may be controlled by a variety of access modules which let you not just control but also display statuses of individual segments. The system can be operated directly (setting or unsetting the alarm and other automation functions) using two-button segments on the keypad. The segment buttons are clearly labelled and coloured (using traffic light logic) so that each segment's status is distinctly indicated. A segment can also be used to indicate a status (e.g. opened garage door) or to control various automated devices (for example heating or window shutters). The maximum number of segments is 20 for one access module. A segment can also be set up to call for help in an emergency (medical or panic alarm).

-  **Continuous red**
SET / ON
Flashes red
ALARM / ALARM MEMORY
-  **Continuous yellow**
PARTIALLY SET
-  **Continuous green**
UNSET / OFF
Flashes green
ENTRY DELAY



The various types of access modules and their combinations:



Card reader

allows control of the system using segments and contactless authorization (RFID card/tag).

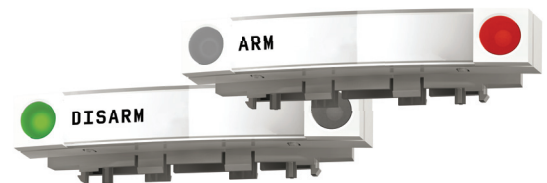
Keypad with a card reader

the user can control the system by segments and authorization, using either entering a code or the contactless method (RFID card/tag), or a combination of both for higher security.

Keypad with display and card reader

the user can control the system by segments and authorization, using either a code, the contactless method (RFID card/tag), both code and card/tag for higher security, or by authorizing and using the options available on the keypad's LCD display.

When unsetting the alarm using the segment buttons, user authorization is always required. When setting the alarm and controlling automated processes using the segment buttons, user authorization is optional for each segment.



A user can be authorized by entering their assigned code or using their RFID card/tag. Each user can have one code and up to two RFID chips (cards or tags).

We recommend using JABLOTRON 100 contactless RFID chips for higher security. Other RFID chips e.g. from system Oasis or third party chips (may not be compatible and Jablotron doesn't guarantee proper function) operating with 125 kHz EM Unique standard can be additionally enabled. For higher security the alarm system can be set up to use confirmed authorization using RFID chips and codes (optional).

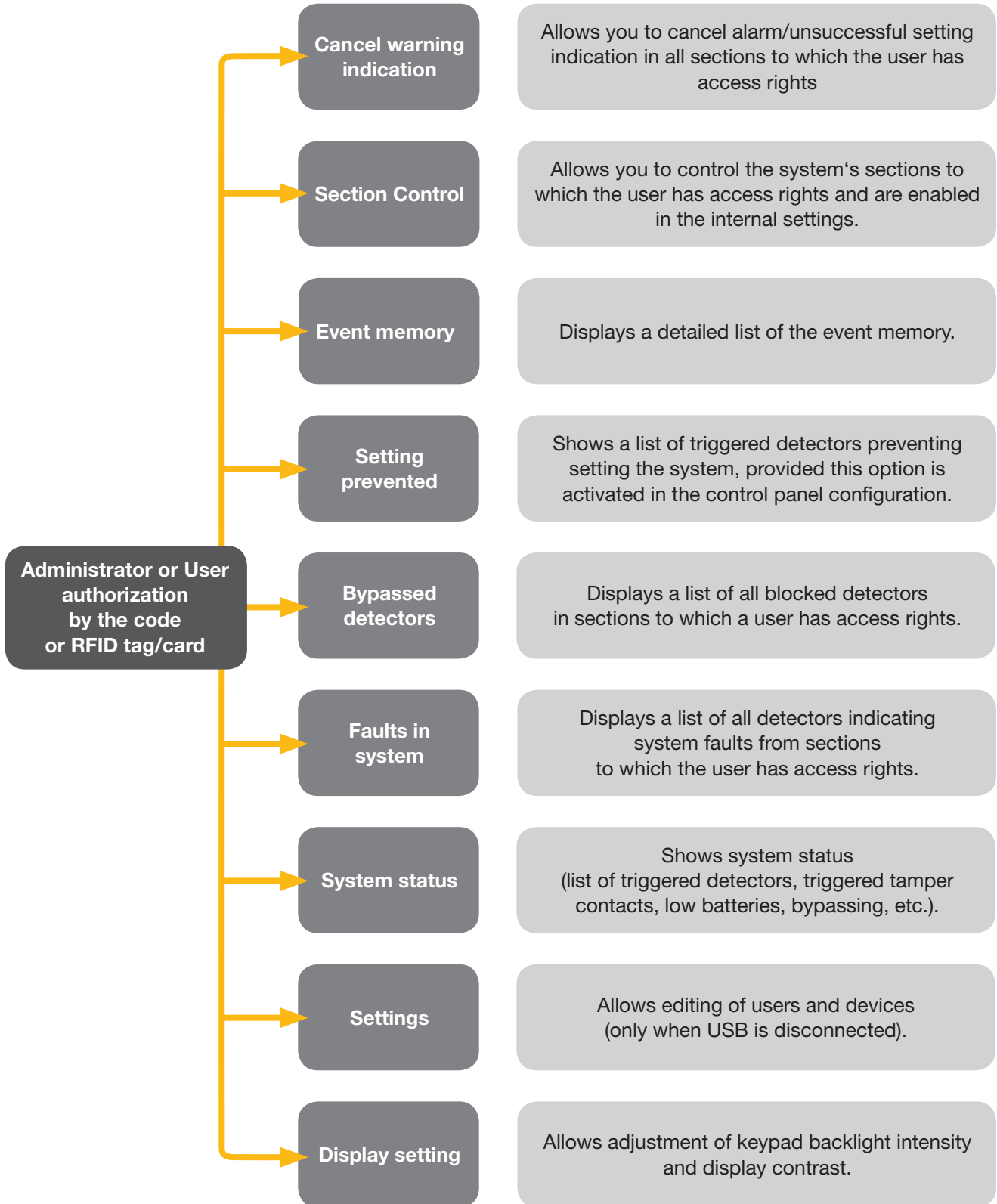
If the user wants to control multiple segments simultaneously, he must authorize himself and then press segments of the particular sections subsequently. This way the user can unset for example the house and the garage within one single authorization.

AUTHORIZATION CODE

The keypad authorization code can consist of up to eleven digits: a prefix (one to three digits), an asterisk * (which separates the prefix and main code), and a 4,6 or 8-digit code according to configuration (for example : 123*1234, or 1*1234). All users can change their own codes which follow the prefix. The code can be changed from the LCD keypad, the J-Link software or MyJABLOTRON app.

The prefix can be omitted for premises with a smaller number of users. In this case only a code is required. These codes can be changed only by the system administrator or a service technician.

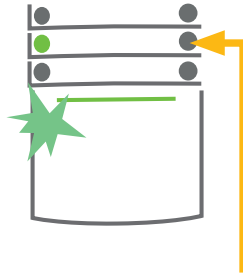
Structure and description of the internal LCD keypad menu



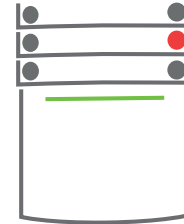
2.1.1 ALARM SETTING



1. Authorize using the keypad. Sections which can be controlled are lit up and the backlit indication button will start flashing green.



2. Press the right button (the one which isn't lit up) to set a particular section. It's possible to set more sections subsequently. The delay between sections selection must not be longer than 2 seconds.



3. The command is executed and the keypad acoustically indicates the exit delay. The section is set now, only the detectors with a "Delayed Zone" reaction provide time to leave the guarded area during the Exit delay. The segment button of the set section turns red.

While setting the alarm, if any detector is triggered (e.g. an open window) the system will react (based on the system configuration) in one of the following ways:

- ▶ Detectors will guard automatically after they switch to standby mode (default setting)
- ▶ The system will optically indicate triggered detectors with a segment flashing red for 8 seconds and the system will set automatically once this period has expired.
- ▶ Setting the section with triggered detectors is also possible by pressing the segment button on the right side repeatedly. This way a user confirms an intention to set the section with a triggered detector (e.g. an opened window). Otherwise the system won't set.
- ▶ A triggered detector will prevent the section from being Set. This status is optically indicated by a flashing red segment button. The detector preventing setting will be shown on the keypad's display menu.

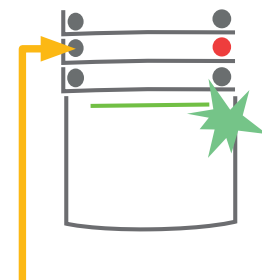
Unsuccessful setting is indicated by yellow a flashing indication button.

Consult the installation with a service technician in order to program the desired behaviour of the system.

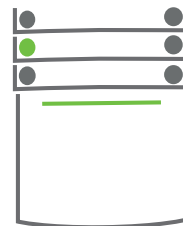
2.1.2 ALARM UNSETTING



1. When you enter the building (triggering a detector with a "Delayed zone" reaction), the system starts indicating entrance delay with a continuous tone and flashing a green segment button of the section in which the delayed entrance has been triggered.



Authorize yourself using the keypad – the green indication light of the authorization panel starts flashing.
2. Press the left segment button of the sections you want to unset.



3. The command is executed and the segment buttons turn green to indicate an unset section.

Note: If the "Unset section by authorization only during entrance delay" parameter is enabled, then mere authorization will unset such section where the entrance delayed has been triggered.

Consult the installation with a service technician in order to program the desired behaviour of the system.

DURESS ACCESS CONTROL

Provides unsetting of the system in a special mode. The system seemingly unsets, however it triggers a silent panic alarm, which is reported to selected users (including ARC).

Unsetting under duress is executed by adding 1 to the last number in a valid code. Contact your service technician if you want to use this feature.

Example for a code with the prefix:

Valid code: 2*9999

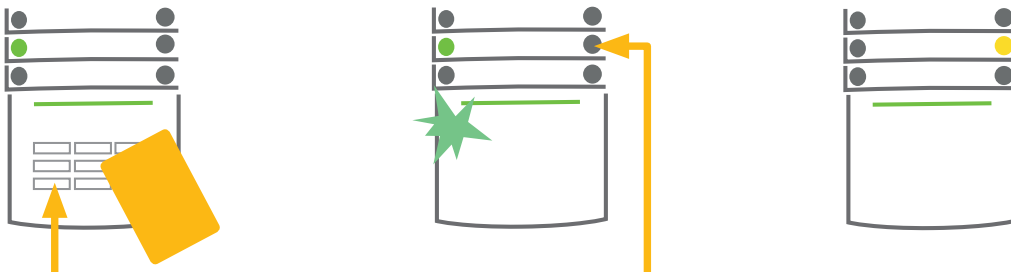
Code for unsetting under duress: 2*9990

Example for a code without the prefix:

Valid code: 9999

Code for unsetting under duress: 9990

2.1.3 PARTIAL ALARM SETTING



1. Authorize yourself using the keypad (enter a code or hold a card or tag up to the reader). The green backlit indication button will start flashing.

2. Press the right segment button of the selected section.

3. The command is executed and the segment button turns permanently yellow to indicate a partially set section.

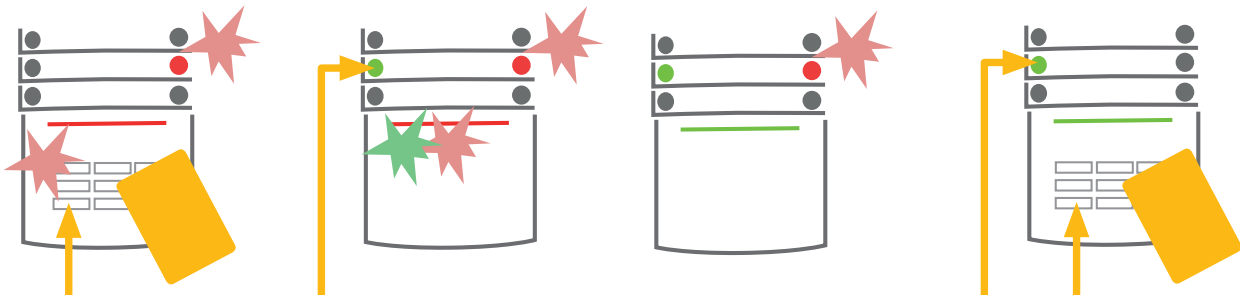
The system can also be configured to be partially set which allows guarding only by certain detectors in a section. Example: At night, it's possible to set the door and window detectors only, while motion detectors inside a house do not react to anything.

To set the entire premises in which partial setting is enabled, the button to set the system has to be pressed twice. After the button is pressed once it flashes yellow, after it is pressed a second time it flashes red.

If the system is partially set already – showing a continuous yellow light – the entire system can be fully set by authorization and pressing the yellow button. Once the button is pressed, the system will be fully set and the button turns red.

Partial setting can be configured in a way that authorization is not required.

2.1.4 TERMINATING A TRIGGERED ALARM



1. Authorize yourself using the keypad (enter a code, hold a tag up to the reader).

2. Press the left segment button of the section in which the alarm has been triggered.

3. Unsetting is finished and sirens are silenced. The green flashing button indicates unsetting of the particular section. The red flashing light indicates alarm memory.

4. Authorize yourself and press the green button again to cancel the alarm memory indication.

5. The segment indicates the unset section with a continuously lit up green button.

A triggered alarm in progress is indicated by a rapidly flashing red segment button and a backlit indication button. You need to authorize yourself using the keypad in order to terminate the alarm. The section remains set, a rapidly flashing red segment button indicates the alarm memory. Indication will keep on flashing even after the system has been unset.

If the alarm memory indication was activated during your absence, search for the cause of the alarm in the event history and be very careful when entering and checking the premises or wait until the security agency arrives (provided your system is connected to an Alarm Receiving Centre).

The segment alarm memory indication remains on until the system is set once again. Alternatively, it can be cancelled by unsetting the system one more time. Alarm indication can be also cancelled from a keypad with an LCD display in the Main menu – Cancel warning indication.

Indication of a triggered tamper alarm can be terminated only by a Service technician.

Note: When using the “Default” system profile, it’s possible to first select a particular action by pressing a segment button and then confirm it by authorization using the keypad.

Terminating an alarm using a remote control will also unset the corresponding section.

2.1.5 SECTION CONTROL FROM THE KEYPAD’S DISPLAY MENU

Statuses of sections are displayed in the left top part of the display.

A fully set section is shown by a number in a rectangle filled with black colour.
A partially set section is depicted by a framed number.

Control from the keypad menu:

- ▶ Authorization by a valid code or an RFID chip
- ▶ Enter the menu by pressing ENTER
- ▶ Section Control → ENTER
- ▶ Select the desired section using arrows
- ▶ Pressing ENTER repeatedly will change between section statuses (partially set / set / unset)
- ▶ Press ESC to exit the menu



2.2 OPERATING THE SYSTEM WITH A KEYFOB

Keyfobs must be enrolled into the system by the installer. The keyfob can be linked to specific users, which will prevent SMS text message notification to the user who is interacting with the system at the moment (if notification parameters are set up in this way). The keyfob can provide either bi-directional communication, confirming the execution of a command with a coloured indicator light, or one-way without any confirmation. Keyfobs control and indicate battery status and are equipped with optical and acoustic indication.

Bi-directional keyfob

The button functions are differentiated by lock icons. The closed lock icon sets programmed sections; the opened lock icon unsets them. Correct command execution is confirmed by an LED light; unsetting – green, setting – red. A communication fault (out of the control panel’s range) is indicated by a yellow LED light flashing once. The buttons with symbols of full and empty circles can control another section. Buttons of the keyfob can also be configured to control PG outputs in different modes: the first button switches on/ the second switches off, each button can have an individual function when impulse or change functions are used. For more functions, it’s possible to press two buttons at the same time. This way a 4-button keyfob can have up to 6 individual functions or one PG status output (e.g. turn the lights on and off), alternatively two PG outputs (e.g. a garage door and door lock).



If the system is configured to Set after confirmation (chapter 2.1.1) the detector will indicate unsuccessful setting with a green LED light if a device is triggered. It’s necessary to confirm setting by pressing the lock button again. A set section will be confirmed by a red LED light.

The keyfob buttons can be blocked to prevent accidental pressing. A command will be sent out when a button is pressed repeatedly.

A low battery is indicated acoustically (with 3 beeps) and optically with a yellow flashing LED after pressing a button.

For more information, consult configuration of the remote control with your service technician.

One-way keyfobs

One-way keyfobs send a signal every time a button is pressed without receiving feedback from the control panel. Sending a signal is confirmed only by a short flash of the red LED and alternatively with a beep.

The button functions are differentiated by lock icons. The closed lock icon sets programmed sections; the opened lock icon unsets them. The buttons with symbols of full and empty circles can control another section or one status PG output (e.g. to turn the lights on and off) or two PG outputs (e.g. a garage door and door lock).

A low battery is indicated by a red LED and acoustically (3 fast beeps).



2.3 OPERATING THE SYSTEM USING A COMPUTER AND A USB CABLE (J-LINK)

The JABLOTRON 100 can be operated locally or remotely (see chapter 2.8) using a computer and installed J-Link software, which can be used for user management (add/remove users, change their level of authorization, phone numbers, codes, card/tags, etc.).

J-link software is available for local connection with a control panel. It's located on the system's security drive (FLEXI_CFG/j-link), which will appear after the control panel is connected to a PC via USB.

It's possible to set / unset the system using icons on the lower bar of the program or with the "Status" buttons in the "Section" tab. If a keypad with at least one controllable segment is used with the system, then it is possible to set/unset the system in J-Link using an on-screen virtual keypad (click on "Keypad" in the main menu).

Warning: When the system is controlled via PC, it doesn't check for triggered devices while setting. This may lead to setting with a triggered device. Be careful when you control the system this way!



2.4 OPERATING THE SYSTEM USING THE VOICE MENU

The system can be controlled from a mobile phone or land line through a simple voice menu, which guides the user through a series of options in the preconfigured language. To access the voice menu, you just dial the alarm system's phone number.

Access to the voice menu can be enabled either to all telephone numbers without restrictions or alternatively only to authorized phone numbers stored in the control panel. Depending on the configuration, authorization by entering a valid code on a phone keypad may be required. When the user enters the menu, the system will give an update of the current status of all sections assigned to the user. The caller then can control these sections, either individually or collectively, using phone keypad and available menu options.

The system default is set up to answer incoming calls after three rings (approximately 15 seconds).



2.5 OPERATING THE SYSTEM USING THE INTERNET AND MyJABLOTRON

The JABLOTRON 100 system can be easily and conveniently operated using your computer via the internet and the MyJABLOTRON web interface, which is accessible from www.myjablotron.com. For more information about this web interface please see the chapter 6.

MyJABLOTRON - PROFI version

Depending on your country or region, a web account in MyJABLOTRON can be set up by an authorized JABLOTRON partner. The login name is the user's e-mail address. The password for the first log in will be sent to this address. The password can be changed anytime in the user settings.

Once logged into the account, the system will display all active devices which can be monitored or controlled.

You can choose to view a complete system overview, an on-screen keypad or access modules of the selected device from a menu which is located on the left side of the device's main page. The on-screen keypad allows operating the system by clicking on the segment buttons – just as easy as on a real keypad. The computer will prompt you to enter an authorization code upon the first request to control the system. Subsequent actions will not require repeated authorization.

The "Overview" menu includes "Section", "Automation (PG)" tabs. Depending on the type of detectors used, the menu may also include tabs like "Thermometers", "Camera detector" and "Electrometers".

Tabs:

- ▶ **Sections** – enables you to view and operate all sections in the system.
- ▶ **Automation (PG)** – enables you to view all programmable system outputs.
- ▶ **Thermometers** – allows you to view the current temperature, graphs and temperature history
- ▶ **Camera detector** – enables you to take snapshots with any installed camera verification devices or view photos taken in past (picture gallery).

The bottom of the home page has an overview of the most recent system events.

MyJABLOTRON offers free notifications (via SMS, e-mail, or push notifications) for selected system section events, programmable outputs, thermometers or meters. These notifications can be set up in the "Settings" menu.

Each system can have only one main user with Administrator rights (owner). This user has the right to share a whole building or its selected parts (single sections, PG outputs, photo verification and measuring devices) with other users whose MyJABLOTRON accounts will be created automatically after the system sharing is configured. If a user already has a MyJABLOTRON account, the shared installation will appear in the user's dashboard as another active device. Notification of shared access will be sent, along with the password, to the e-mail address (login name) of the new user.

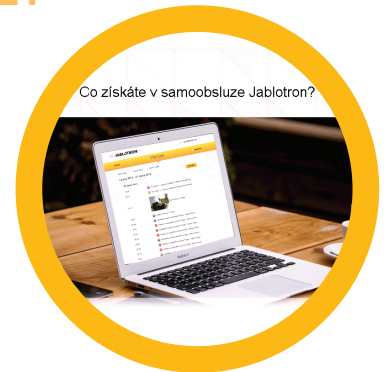
MyJABLOTRON - LITE version

Depending on your country (or region) customers may be able to create an account and/or services in the LITE version of MyJABLOTRON web app.

The LITE service is limited in functionality and minimizes demands for data transfer. LITE is based on the PROFI version with some modifications:

The LITE version in comparison with PROFI version:

- ▶ Doesn't maintain a constant connection with a control panel
- ▶ Establishing connection takes approx. 1 minute
- ▶ The current status appears after successful connection
- ▶ Controlling the system (sections or PG outputs) is possible after successful connection



- ▶ The event history is not available
- ▶ The system doesn't send event notifications (SMS, email, push messages)
- ▶ Virtual system keypads are not available
- ▶ A detector's photo gallery and photos upon request are not available
- ▶ Thermometers, electricity meters and other supported automation devices are not displayed

A password will be sent to the user's e-mail address, which also serves as a login name. The password can be changed at any time in the settings.

Once logged into the account, the system shows all active devices that can be monitored or controlled, depending on the registered version of MyJABLOTRON (PROFI or LITE).

2.6 OPERATING THE SYSTEM USING THE MYJABLOTRON SMARTPHONE APP

If the user account is created in the MyJABLOTRON web interface (see previous chapter), the alarm system can be monitored and controlled remotely using MyJABLOTRON app for smart phones running either on Android (ver. 4.0.3 or higher), iPhone (ver. 7 or higher) or Windows Mobile. The application can be downloaded free of charge after logging into MyJABLOTRON, or from Google Play, AppStore, etc.

Login credentials for MyJABLOTRON smart phone app are identical to those for the MyJABLOTRON web interface.



2.7 OPERATING THE SYSTEM BY SMS

SMS commands can control Individual sections and programmable outputs just like keypad segment buttons. The form of text message to operate the system is: `CODE_COMMAND`. The actual commands are predefined (SET/UNSET) with an additional numeric parameter which identifies a specific section.

One SMS can control multiple sections at the same time. In this case, added numbers in the command define sections.

Example of an SMS command used to set sections 2 and 4 and user code 2222
2222_SET_2_4

The commands to control the programmable outputs can be programmed by a system installer. For example, you may choose *SHUTTERS DOWN* as your command to close the shutters on your windows. It is also possible to configure the system not to require a code before a command. In such case the command is simply automatically identified when the system recognizes the user's phone number from which the SMS was sent. Configuration is done by a service technician.



2.8 OPERATING THE SYSTEM REMOTELY USING A COMPUTER (J-LINK)

The JABLOTRON 100 system can be operated both remotely and locally on-site (see chapter 2.3) by installing the J-Link software on your computer which can also manage users (change codes, cards/tags, and phone numbers).

To operate the system remotely, the program must be downloaded from the "Downloads" section of the www.jablotron.com website or it can be found in the control panel's SD card. The registration code of the security system (a 14 digit code) and the telephone number of its SIM card is required to connect to the system remotely the first time. Remote access is initiated by clicking on "Internet" in the main menu.



It's possible to set / unset the system using icons on the lower bar of the program or with the "Status" buttons in the "Section" tab. If a keypad with at least one controllable segment is used in the system, then it is possible to set/unset the system in J-Link using an on-screen virtual keypad (click on "Keypad" in the main menu).

Warning: When the system is controlled via PC, it won't prevent setting with a triggered device. Be careful when you control the system this way!

2.9 PG OUTPUTS CONTROL VIA...

Keypad segment

A PG output switches on by pressing a button on the right side of the segment and switches off by pressing the button on the left side. If the output is configured as a pulse output, it's switched off according to the preset time.

PG control may or may not be stored in the control panel's event memory. Configuration is done by a service technician.

Authorization is/isn't demanded based on the system configuration.

User keypad authorization

It's possible to activate a PG output just by user authorization (entering a code or using an RIFD tag). The PG output must be configured to activate from a designated keypad.

Remote control

By pressing an assigned button of a remote control. Two-way remote controls confirm activation of PG outputs with an LED indicator.

Dialling-in

Each telephone number stored in the system (one user can have one telephone number) can control it just by dialling-in (i.e. without establishing a call). Dialling-in consists of dialling the phone number of the SIM card used in the security system and hanging up before the system answers the call. By default, the system will answer the call after the third ring (approximately 15 seconds).

SMS message

Sending an SMS can switch on/off a particular PG. Authorization is/isn't demanded based on the system configuration.

Example: CODE CONFIGURED TEXT

MyJABLOTRON website

By clicking on ON/OFF in the Automation (PG) tab.

My JABLOTRON smartphone app

By tapping on ON/OFF in the Automation (PG) tab.

3. BLOCKING/ DISABLING THE SYSTEM

3.1 BLOCKING USERS

Any user can be temporarily blocked (e.g. when a user loses a card/tag or his access code is revealed). When user's access is blocked their ID code or card/tag will no longer be accepted by the system. The users will also not receive any text message alerts or voice reports to their phone.

Only the system administrator or service technician can block a user. One method of taking away access rights is by choosing *Settings / Users / User / Bypass* and selecting “Yes” on the LCD keypad. Another option is to locally or remotely block a user through the J-Link software by clicking on the user in the *Settings / Users / User blocking* column.

A blocked (disabled) user will be marked with a red circle until the blocking is cancelled.

3.2 BLOCKING DETECTORS

A detector can be temporarily blocked in a similar way a user can be disabled. A detector is blocked when its activation is temporarily not desirable (for example a motion detector in a room with a pet or disable a siren sounding). The system still performs diagnostics of tamper contacts and sends service events however the alarm function is deactivated.

Only the system administrator or service technician can block a detector. It can be achieved by choosing *Settings / Devices / Bypass* and selecting Yes on the LCD keypad. Another option is to use the J-Link software by clicking on the detector in the *Settings / Diagnostics / Disabled* column. A blocked detector is marked with a yellow circle until it is turned back on using the same procedure. A device can be also blocked from MyJablotron service and MyJABLOTRON smartphone app.

3.3 DISABLING TIMERS

To temporarily disable automated scheduled events in the system, a timer can be disabled. Disabling a scheduled event (e.g. unsetting the system from night guarding at a predetermined time) will prevent execution of that event (e.g. while on vacation).

A timer can be disabled locally or remotely through the J-Link program by clicking on the section in the *Settings / Calendar / Blocked* column. A disabled timer is marked with a red circle until it is turned back on using the same procedure.

4. CUSTOMIZING THE SYSTEM

4.1 CHANGING USER ACCESS CODE

If the system is set up with prefix codes, individual users can be allowed to change their codes from the LCD menu on the keypad. The code can be changed after authorization by selecting *Settings / Users / User / Code*. To input a new code you must enter edit mode (the code will start to flash) by pressing *Enter*, enter the new code and confirm by pressing *Enter* again. After completing the changes they must be confirmed by choosing *Save* when the system prompts you with “*Save Settings?*”

If the system is set up without prefixed codes, only the system administrator and the service technician can change the security codes. The system administrator can make changes from both the LCD keypad menu the J-Link software and MyJABLOTRON smartphone app.

4.2 CHANGING, DELETING OR ADDING AN RFID CARD/TAG

If the system is set up with prefixed codes, users can add, change or delete their RFID tags or cards from the LCD menu on the keypad. These changes are done after authorization by selecting *Settings / Users / User / Access card 1 (or 2)*. To enter a new RFID card/tag, you must enter edit mode (access card 1 or 2 will start to flash) by pressing *Enter*. Then The RFID card/tag must be placed on to the reader or the serial number must be manually entered. After confirming by pressing *Enter* again, the RFID card/tag is added. To delete an access card enter “0” into the serial number field. After the changes are complete the change must be saved by selecting *Save* when the system prompts with “*Save Settings?*”.

The system administrator and the service technician can add, change and delete RFID cards/tags from both the LCD keypad menu and J-Link.

4.3 CHANGING A USERNAME OR PHONE NUMBER

If the system is set up with prefix codes, users can add, change or delete their telephone numbers or change their name from the LCD menu on the keypad. This can be done after authorization by selecting *Settings / Users / User / Phone*. The user must be in edit mode to make changes. This is done by pressing *Enter*. After making the changes, they must be confirmed by pressing *Enter* again. To delete a phone number enter "0" into the phone number field. After the changes are complete the change must be saved by selecting *Save* when the system prompts with "Save Settings?"

The system administrator and the service technician can add, modify or delete a user's phone number or change a user's name from both the LCD keypad menu and J-Link.

4.4 ADDING / DELETING A USER

Only the system administrator or service technician can add new users to the system (or delete them). New users can be added to the system (or deleted from it) only through the J-Link program, or the F-Link program in the case of a technician.

When creating a new user, it's necessary to assign him with access permissions (rights), sections the user may operate, programmable outputs he may control, and what type of authorization will be required.

4.5 CALENDAR EVENTS SET UP

It's possible to configure up to 20 calendar events (unsetting / setting / partial setting, controlling or blocking PG outputs). A single calendar event may combine several actions at the same time. For example, you can Set selected sections, switch on a PG output and block another PG, all at once.

Timers can be set up via J-Link in the Calendar tab.

Akce	Dne v týdnu	Čas	Stavění	Dělní	Ovládnutí PG	Dve PG	Blokování	Přístup
1	pon, úte, stř, čtv, pá	17:30	Zapni	1	Ne	Ne	Ne	Přístup
2	pon, úte, stř, čtv, pá	06:50	Ne	1	Ne	Ne	Ne	Ne
3	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	2, 3	Ne	Ne	Ne	Ne
4	pon, úte, stř, čtv, pá	08:30	Zapni	1	Ne	Ne	Ne	Ne
5	pon, úte, stř, čtv, pá, sob, ne	08:51	Zapni	4	Ne	Ne	Ne	Ne
6	pon, úte, stř, čtv, pá, sob, ne	08:58	Zapni	4	Ne	Ne	Ne	3 - ne výstup 3
7	pon, úte, stř, čtv, pá, sob, ne	08:51	Ne	Ne	Ne	Ne	Ne	Ne
8	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
9	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
10	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
11	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
12	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
13	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
14	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
15	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
16	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
17	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
18	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
19	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne
20	pon, úte, stř, čtv, pá, sob, ne	00:00	Ne	Ne	Ne	Ne	Ne	Ne

5. EVENT HISTORY

The security system stores all performed operations and events (setting, unsetting, alarms, faults, messages sent to users and ARCs) in the micro SD card in the system's control panel. Each entry includes the date, time (start and end), and source (cause / origin) of the event.

The different ways of browsing through the system's event history:

5.1 USING THE LCD KEYPAD

Accessing the event history using the keypad requires user authorization. Once authorized, the available options (based on user permissions) are displayed by choosing Event Memory. Records can be viewed using arrows.

5.2 USING J-LINK AND A COMPUTER

The system memory can be browsed using the J-Link program. Events can be downloaded from the control panel in small (about 1,200 events) or larger (about 4,000 events) batches. The events can be filtered in detail, colour-coded for easier orientation, or saved into a file in a computer.

5.3 LOGGING INTO MYJABLOTRON (WEB/SMARTPHONE)

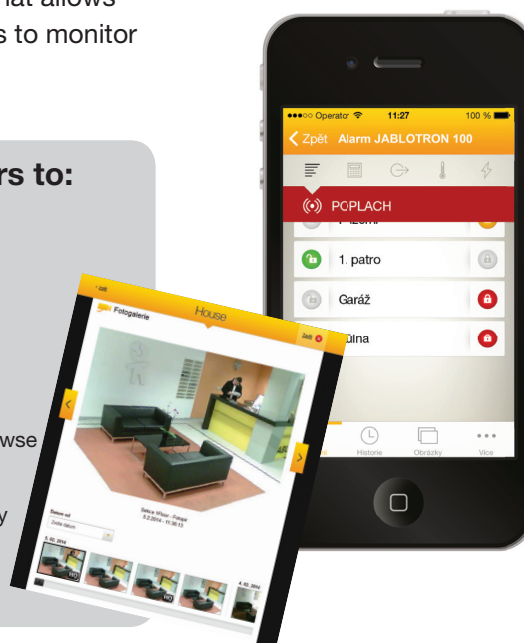
All system events can be viewed after logging in the MyJABLOTRON web/smartphone interface. The account shows history in a range which corresponds with the user's permissions.

6. WHAT IS THE MYJABLOTRON WEB INTERFACE?

The MyJABLOTRON web interface is a unique service that allows on-line access to JABLOTRON devices. It allows end-users to monitor and control the system.

The MyJABLOTRON web interface allows users to:

- ▶ View the current system status.
- ▶ Set/unset the entire system or a part of it.
- ▶ Control programmable outputs.
- ▶ View the event history.
- ▶ Send reports to selected users via text messaging, e-mail or push notifications
- ▶ Capture images from photo verification devices (640 x 480 px) and browse through them in the Photo gallery tab or directly in Recent events
- ▶ Monitor current temperature or energy consumption, including a history overview on graphic charts.
- ▶ And other useful features.



7. PERIODICAL MAINTENANCE

- ▶ It's necessary to have regular and timely maintenance checks performed in order to secure reliable functioning of the system. Most of the maintenance is carried out by an installation company at least once a year during periodical maintenance inspections.
- ▶ User maintenance consists of keeping the individual devices clean.
- ▶ Some devices may require testing (fire detectors, for example). Please, contact your service technician.

PARAMETR	JA-101K (-LAN) (-LAN3G)	JA-106K (-3G)
Control panel power supply (replacement fuses are packaged with the control panel)	~ 230 V / 50 Hz, max. 0.1 A, together with T200 mA fuse, ~ 110 V to 120 V / 60 Hz, max. 0.2 A, together with T400 mA fuse, protection class II	~ 230 V / 50 Hz, max. 0.2 A, together, with T400 mA fuse, protection class II,
Back-up battery	12 V; 2.6 Ah (lead gel)	12 V; 7 to 18 Ah (lead gel)
Maximum battery charging time	72 h	72 h
Max. number of devices	50	120
LAN communicator	Ethernet interface (only LAN version)	Ethernet interface
Dimensions (mm)	258 x 214 x 77	357 x 297 x 105
Weight	1250 g	2500 g
Reaction to invalid code entry	ALARM AFTER 10 WRONG CODE ENTRIES	
Event memory	APPROX. 7 MILLION LATEST EVENTS, INCL. DATE AND TIME	
Power supply unit	TYPE A (EN 50131-6)	
GSM communicator	850 / 900 / 1800 / 1900 MHz	
GSM communicator 3G	850 / 900 / 1800 / 1900 / 2100 MHz	
Environment	class II, in acc. with EN 50131-1	
Operating temperature range	-10 to +40°C, average humidity up to 75%	
Security level	grade 2 according to EN 50131-1, EN 50131-3, EN 50131-6, EN 50131-5-3	
Operating frequency (with the JA-11xR module)	868.1 MHz	
Radio emissions	ETSI EN 300220 (module R), ETSI EN 301 419-1, ETSI EN 301 511 (GSM)	
EMC conformity	EN 50130-4, EN 55022, ETSI EN 301 489-7	
Safety conformity	EN 60950-1	
Operational conditions	ČTÚ VO-R/10, ERC REC 70-03, ERC DEC (98) 20	
Certification body	TREZOR TEST (JA-101K, JA-101K-LAN JA-106K), INCERT T014(A) (JA-101K, JA-106K)	
Caller identification conformity	ETSI EN 300 089	



JABLOTRON ALARMS a.s. hereby declares that these control panels JA-101K, JA-101K(-LAN)(3G) a JA-106K (-3G) meet the basic requirements and other relevant provisions of the Directive no. 2014/53/EU, 2014/35/EU, 2014/30/EU and 2011/65/EU. You will find the original Declaration of Conformity at www.jablotron.com.

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit www.jablotron.com. Technical Support section.

BUS / Wireless Devices

The main hub of the security system is its control panel. It can communicate with all devices in two ways: using the BUS, i.e. using data cables within the guarded premises or part thereof; or wirelessly using radio communication. BUS devices are powered by the control panel. Wireless devices require batteries whose longevity depends on intensity of use. Some of the wireless devices are supplied by 250V from the electric grid.

Control Segment

This is the control and signalling part of the access module (keypad). A segment contains a description of its function and has two backlit buttons – a green one on the left and a red or yellow one on the right. A segment is used to easily and clearly operate a part of the system and simultaneously display its status using the colour indicators (green when unset, red when set, and yellow when partially set). The number of segments and their function are determined by the service technician.

RFID Card / Tag

The RFID card/tag allows the user to operate the system and is used for contactless authorization by simply placing the card/tag on to the keypad reader. It replaces or complements numerical code entries. The RFID card can be carried in a wallet. The RFID tag can be attached to a key ring.

Section

The alarm system can be divided into several smaller, independently functioning parts, called sections. Each section can have its assigned detectors, keypads, as well as sirens, users and their telephone numbers. There can be up to 15 sections per system.

Programmable Outputs PG

The security system can be used to switch on/off or control other electrical devices or appliances. This is done using programmable outputs that can be controlled by the user (via text messages, using the keypad, etc.) or can be automated based on the system status (following the system status, alarm status, faults, etc.).

Home Automation

In addition to providing an intruder alarm system, the JABLOTRON 100 offers a number of other features. Among the most popular functions are: electrical door locks, automated light switches using motion detectors, and the remote control of appliances (electrical heating, garage doors, gates, entry barriers, etc.).

Panic Alarm

When a user is in danger and in need of urgent assistance, the panic alarm can be triggered. The panic alarm can be set up as a designated segment on the keypad, a special code, a panic button, or as a specific combination of buttons on a keyfob. If connected to a security centre, triggering the panic alarm creates an immediate response (vehicle dispatch) that cannot be cancelled by phone.

Security Centre, ARC

An Alarm Receiving Centre, a continuously manned security agency (24/7/365), is able to immediately react to information received from the guarded premises and respond with an appropriate action or proceed according to internal rules.

Notes:

For questions and further information contact your installer.



www.jablotron.com