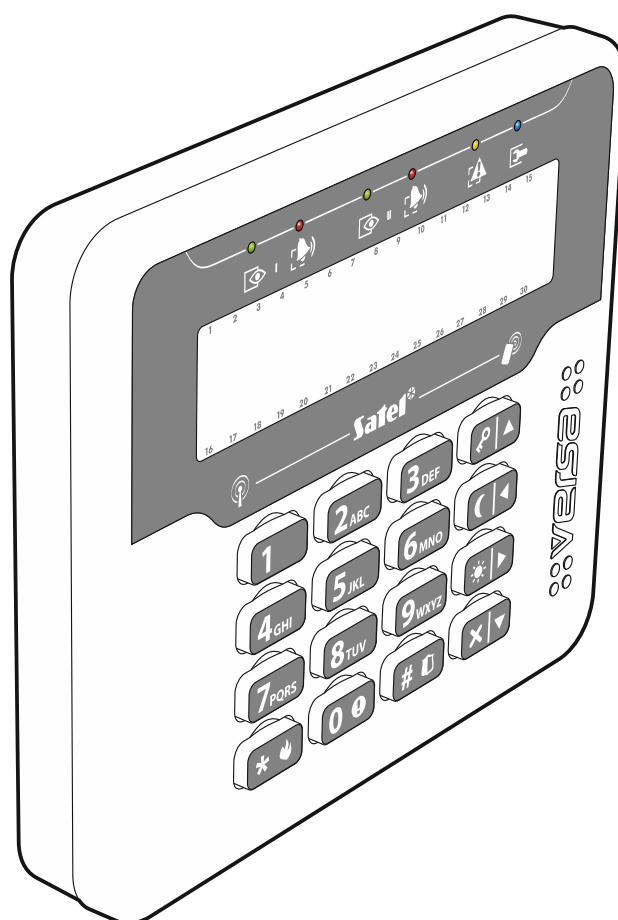


# Wireless keypad VERSA-LCDM-WRL



Firmware version 2.03

## WARNINGS

The device should be installed by qualified personnel.

Read carefully this manual before proceeding to installation.

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

The name plate of the device is located on the enclosure base.

SATEL's goal is to continually upgrade the quality of its products, which may result in some changes of their technical specifications and firmware. The current information on the introduced modifications is available on our website.

Please visit us:  
<http://www.satel.eu>

**Hereby, SATEL sp. z o.o., declares that this keypad is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be consulted at [www.satel.eu/ce](http://www.satel.eu/ce)**

The following symbols may be used in this manual:



- note;



- caution.

The VERSA-LCDM-WRL wireless keypad enables operation and programming of the control panels of VERSA (firmware version 1.04 or newer), VERSA IP and VERSA Plus series. The device is designed for work within the ABAX two-way wireless system. It is supported by the ACU-120 / ACU-270 controller connected to the VERSA / VERSA IP / VERSA Plus control panel.



The VERSA-LCDM-WRL keypad is not supported by the ARU-100 radio signal repeater.

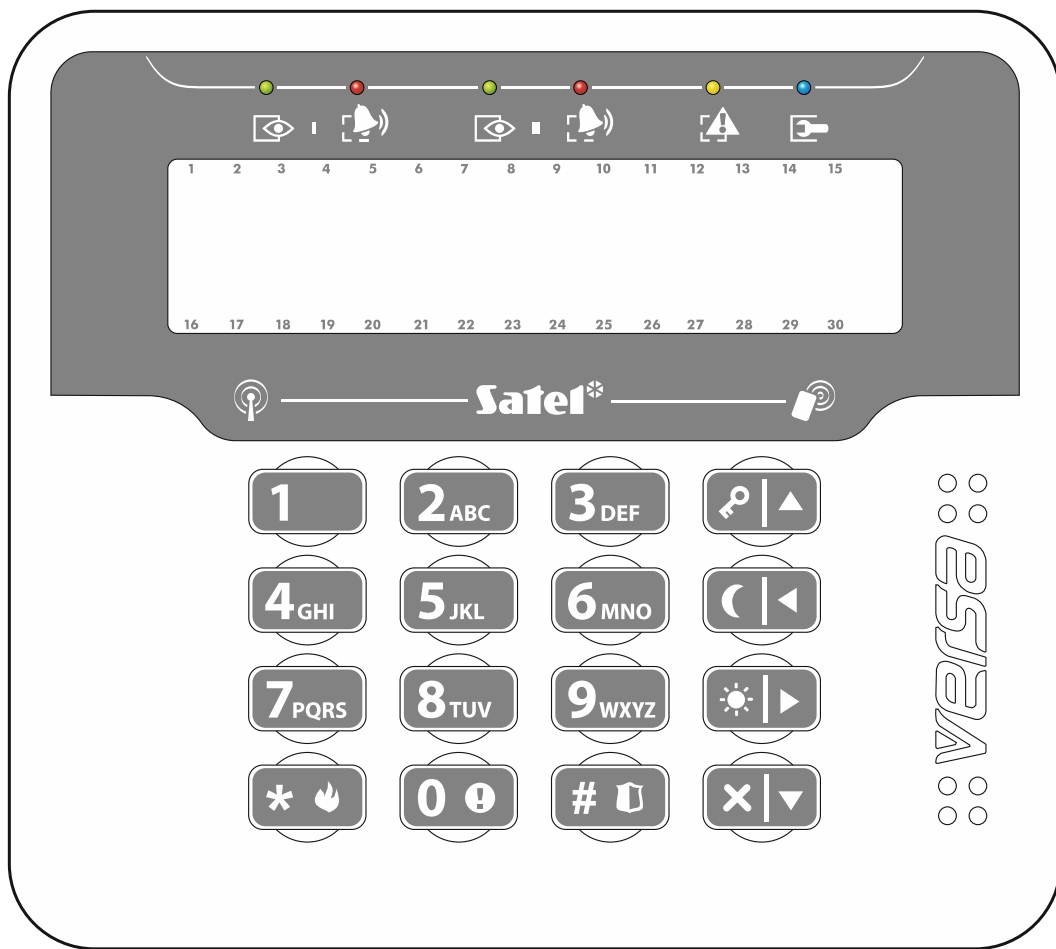


Fig. 1. VERSA-LCDM-WRL keypad.

## 1. Features

- Two-way encrypted radio communication in the 868 MHz frequency band.
- Display 2 x 16 characters with backlight.
- LEDs indicating the state of partitions and system.
- 12 keys, bearing designations according to telephone standard and intended for entering data.
- 4 additional keys for menu navigation and arming/disarming.
- Backlit keys.
- Built-in proximity card reader.
- Built-in sounder.
- Tamper contact reacting to the enclosure opening or detaching from the wall.
- Power supply: two CR123A 3 V batteries.

## 2. Description

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### Operating modes

The keypad can work in two modes:

**active mode** – started by pressing any key. Additionally, the active mode can be started automatically when an alarm occurs or an entry delay, an exit delay or an auto-arming delay begins (see description of the WAKE-UP parameter, section “Settings stored in ABAX system controller” p. 5). In this mode, the keypad operates in much the same way as the LCD wired keypad. The display is ON and the backlight, LED signaling and sound signaling are active.

**inactive mode** – is started:

- after 20 seconds since the last key press,
- after preset time, if the active mode was started automatically (see description of the WAKE-UP parameter, section “Settings stored in ABAX system controller” p. 5).

The purpose of the inactive mode is to save energy. The display is off. Backlight, LED indication and sound signaling are disabled (if a time different from 0 is preset for the WAKE-UP parameter, CHIME from zones will be signaled).

### Support for proximity cards

The built-in proximity card reader enables the system to be operated by using proximity cards (any 125 kHz passive transponder in the form of a card, tag, etc.). If the alarm system is not to be operated by using the proximity cards, the reader can be disabled (thus reducing the battery consumption).

### Periodic transmissions

Every 15 minutes, the keypad sends a periodic transmission. The purpose of such transmissions is to monitor presence and condition of the keypad.

### Battery status control

The keypad controls the status of the batteries. If the voltage is lower than 2.75 V:

- low battery information is sent during each periodic transmission,
- on entering the active mode, a low battery message will be displayed (the message will specify which battery is to be replaced – the battery designation can be found on the electronics board, after opening the enclosure).



*The battery life depends on how the keypad is used. The more frequently the active mode is entered, the quicker the batteries will be depleted.*

## 3. Installation

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**There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly.**

**Be particularly careful during installation and replacement of the batteries. The manufacturer is not liable for the consequences of incorrect installation of the battery.**

**The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.**

The keypad is designed for indoor installation. The place of installation should be readily accessible to the system users. When selecting the installation location, take into account the communication range of the ABAX system.

1. Open the keypad enclosure (Fig. 2).
2. Install the batteries and add the keypad to the wireless system (see: “Adding the keypad to the wireless system”).
3. Put the cover on the catches and snap the enclosure shut.

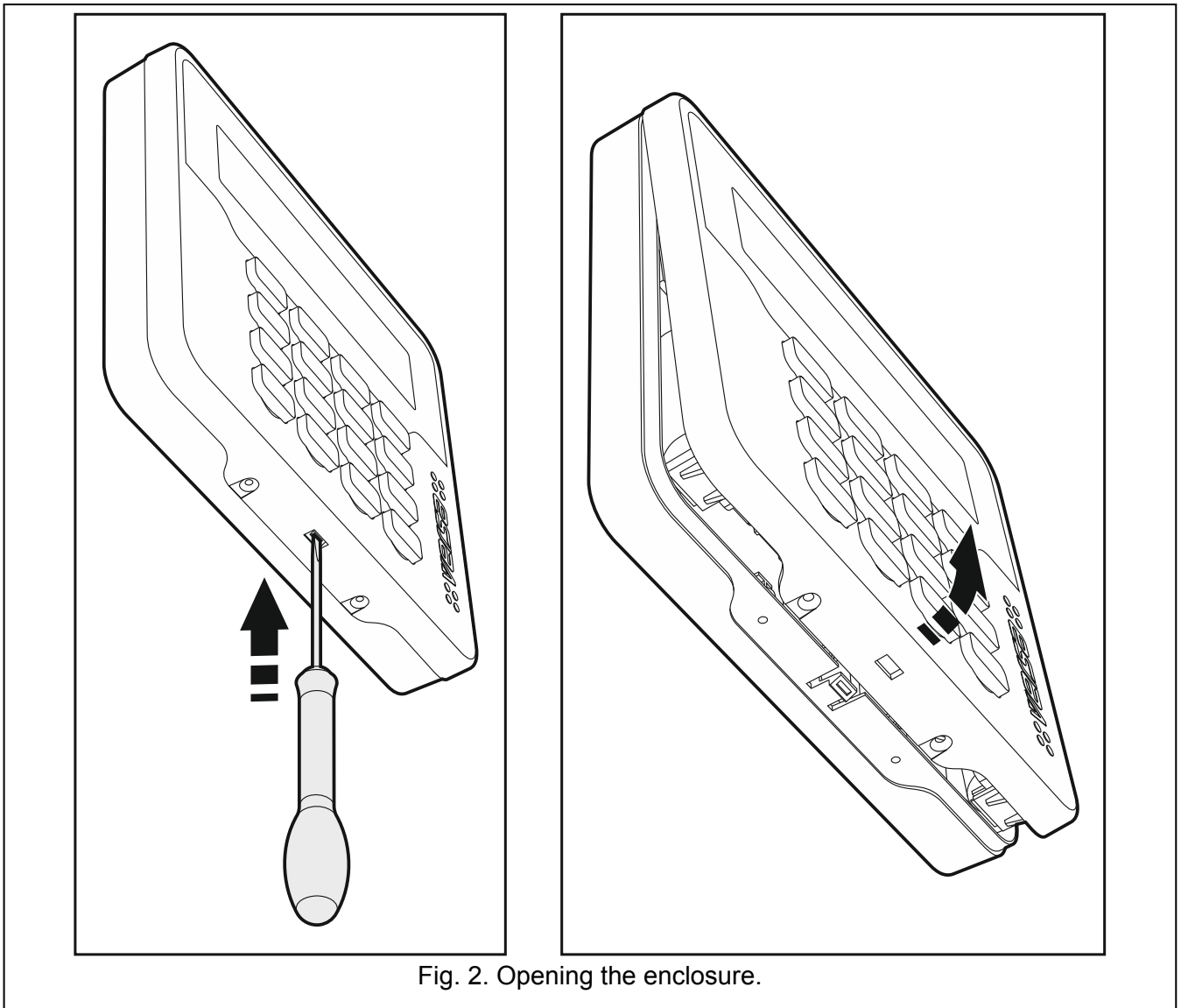


Fig. 2. Opening the enclosure.

4. Place the keypad in the location intended for its installation.



*If you want to hold the keypad in your hand when checking the radio signal level, grab the device from its left side (on its right side, there is the antenna, which must not be covered).*

5. Check the level of signal received from the keypad by the ACU-120 / ACU-270 controller. If the signal level is lower than 40%, select another place for installation. Sometimes, it is sufficient to shift the device ten or twenty centimeters to obtain a considerable improvement in the signal quality. Only after the optimal level of radio signal is achieved can you proceed to the next step.
6. Open the keypad enclosure (Fig. 2).
7. Place the enclosure base against the wall and mark location of the mounting holes.
8. Drill the holes in the wall for wall plugs (screw anchors).
9. Using wall plugs (screw anchors) and screws, secure the enclosure base to the wall. Select wall plugs and screws specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.). When installed, the device must withstand a pull-off force of at least 50 N.
10. Put the cover on the catches and snap the enclosure shut.
11. Lock the cover using screws.

### 3.1 Adding the keypad to the wireless system





**Before adding the keypad, make sure that the controller switch 8 is set to ON position.**

You can add the wireless keypad to the ABAX system by using either a computer with DLOADX program installed, or an LCD keypad. The controller allows for registering of up to 6 VERSA-LCDM-WRL keypads. If no wired keypad is connected to the control panel, you can only add the first wireless keypad using the DLOADX program (to establish communication between the program and the control panel, you must start the service mode “from pins” – refer to the control panel programming manual).








### 3.1.1 DLOADX program

You can add wireless keypads in the “VERSA – Structure” window, “Hardware” tab, after clicking on the name of ABAX system controller on the list of devices, and then on the “LCD-WRL” tab (see: Fig. 3 p. 5).

1. Click on the “Read” button to read the data related to wireless keypads from the controller (these data are not read after clicking on the  button in the main menu).
2. Click on the “New device” button. The “New wireless dev.” window will open.
3. In the “Serial number” field enter the 7-digit serial number of the added device. The serial number can be found on the electronics board.
4. In the “Address” field, select which address is to be assigned to the keypad to be added.
5. Press any button on the keypad or open its tamper switch.
6. The message will confirm that a keypad has been added (unless you have entered an invalid serial number, of which you will be informed by a message). The name assigned to the keypad will be displayed. You can change it.
7. Click “OK” (to cancel adding the keypad, click on the “Quit” button). The “New wireless dev.” window will close. The new keypad will appear in the table, “LCD-WRL” tab, as well as on the list of expanders.
8. Click on the “Write” button to write the new wireless keypad data to the controller (these data will not be written after clicking on the  button in the main menu). The new keypad data will be automatically written to the control panel.

### 3.1.2 LCD keypad

You can add wireless keypads in the service mode by means of the NEW DEVICE function (SERVICE MODE ►2. HARDWARE ►1. KPDS. & EXPS. ►3. WIRELESS MOD. ►1. NEW DEVICE).

1. Having started the function, enter the 7-digit serial number of the added keypad and press the  key. The serial number can be found on the electronics board.
2. When the “Open device tamper” message is displayed, press any key on the keypad or open its tamper switch.
3. Information on the keypad to be added will be displayed (if nothing happens, it can mean that you have entered an invalid serial number – if this is the case, press  to return to the submenu). Press  to confirm your intention to add a keypad.
4. Using the  and  keys, select the address which is to be assigned to the keypad to be added, and then press . The wireless keypad will be added.
5. The name assigned to the keypad will be displayed. You can change it. Press  to save the name.
6. In the next step, you can configure the settings stored in the ABAX system controller (see: p. 5).

## 3.2 Removing the keypad from the wireless system

### 3.2.1 DLOADX program





You can remove the wireless keypads in the “VERSA – Structure” window, “Hardware” tab, after clicking on the name of ABAX system controller on the list of devices, and then on the “LCD-WRL” tab (see: Fig. 3 p. 5).

1. Click on the “Read” button to read the data related to wireless keypads from the controller.

2. Click on the wireless keypad you want to remove.
3. Click on the “Delete” button. The “Confirm” window will open.
4. Click on the “Yes” button. The “Confirm” window will close.
5. Click on the “Write” button to save the changes to the controller and control panel.

### 3.2.2 LCD keypad

You can remove wireless keypads in the service mode by means of the REMOVE DEVICE function (SERVICE MODE ►2. HARDWARE ►1. KPDS. & EXPS. ►3. WIRELESS MOD. ►3. REMOVE DEVICE).

1. Having started the function, use the  and  keys to select the keypad you want to remove, and then press .
2. A prompt will appear on the display, whether the keypad is to be deleted (the keypad serial number will be displayed). Press . The keypad will be deleted.

## 4. Configuring

You can configure the wireless keypad settings by using a computer with DLOADX program installed, or an LCD keypad.

### 4.1 Settings stored in ABAX system controller

The settings can be configured:

- DLOADX program: →“VERSA – Structure” window →“Hardware” tab →“Expansion modules” branch →[ABAX system controller name] →“LCD-WRL” tab (see: Fig. 3),

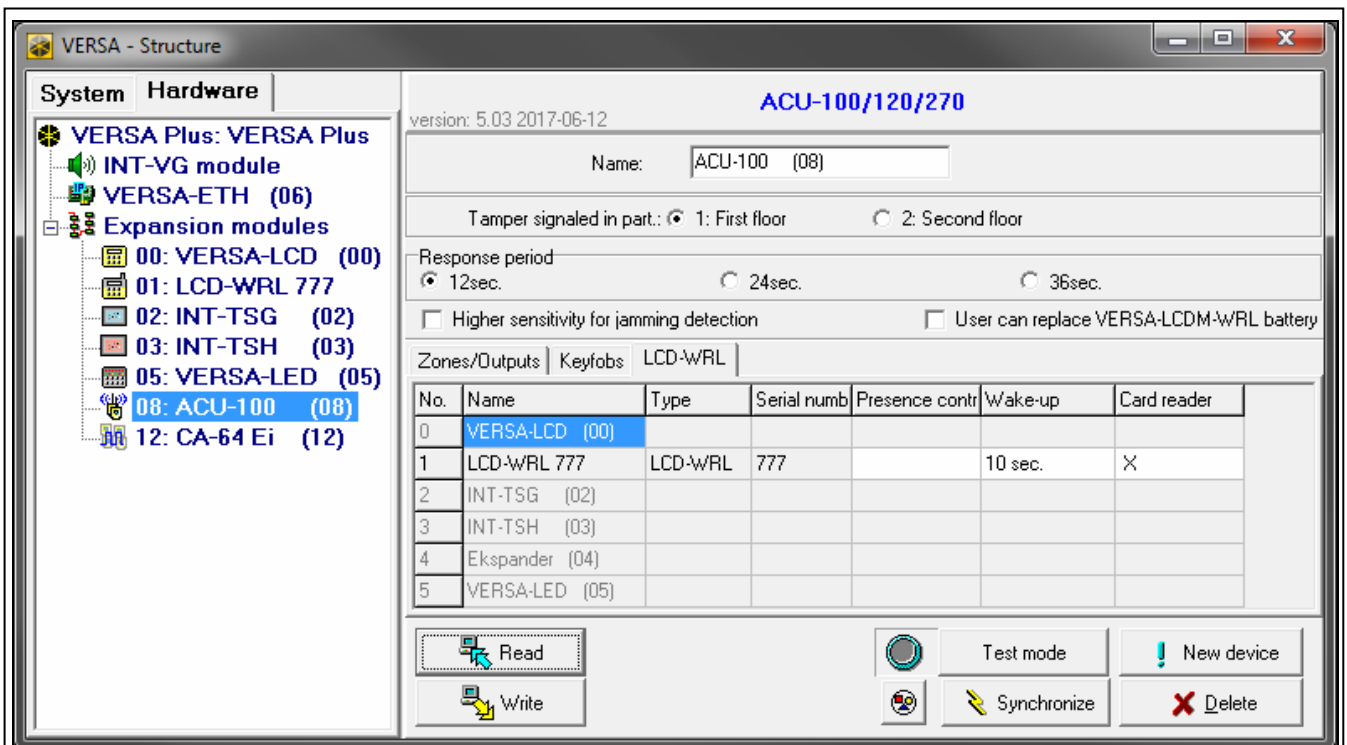


Fig. 3. DLOADX program: keypad settings stored in the ABAX system controller.

- LCD keypad: SERVICE MODE ►2. HARDWARE ►1. KPDS. & EXPS. ►3. WIRELESS DEV. ►2. CONFIG.DEVICE ►[wireless keypad name].

#### 4.1.1 Description of parameters and options

**Presence contr.** – if this option is enabled, the keypad presence is being monitored. If there is no transmission from the keypad for 1 hour, missing keypad will be reported.

**Wake-up** - maximum length of time for which the active mode can be started automatically. If you enter a value different from 0:

- the active mode will be started automatically when an alarm occurs or an entry delay or an exit delay begins,
- the CHIME from zones will also be signaled in the inactive mode.

If you enter 0, the active mode will not be started automatically.



**If a value different from 0 is preset for the WAKE-UP parameter, the keypad will be awaiting for transmissions with information on events. As a result, the energy consumption will be growing and the battery life will be considerably reduced.**

**Card reader** – if this option is enabled, the card reader is supported.

## 4.2 Settings stored in the control panel

These settings are configured in exactly the same way, as for the wired keypad:

- DLOADX program: →“VERSA – Structure” window →“Hardware” tab →“Expansion modules” branch →[keypad name] (see: Fig. 4),
- LCD keypad: SERVICE MODE ►2. HARDWARE ►1. KPDS. & EXPS. ►2. SETTINGS ►[keypad name].

### 4.2.1 Parameters and options

Given in the square brackets are the names of parameters and options presented on the keypad display.

**Name** – individual name of the keypad (up to 16 characters).

**Tamper signaled in part.** [Tamper in p.] – partition in which tamper alarm will be triggered if the keypad tamper switch is opened or the keypad is not present.

**CHIME signal of zones** [Zone chime] – the keypad can audibly signal violation of selected zones. If the zone is armed, violation will not trigger the CHIME signal.



*The wireless keypad signals the CHIME from zones not more frequently than once every 30 seconds. In the inactive mode, the CHIME from zones is only signaled if a value different from 0 is preset for the WAKE-UP parameter.*

**Sign. entry delay** [Entry time sign.] – if this option is enabled, the keypad will audibly signal the entry delay countdown. In the inactive mode, the entry delay is not signaled.


**Sign. exit delay** [Exit time sign.] – if this option is enabled, the keypad will audibly signal the exit delay countdown. In the inactive mode, the exit delay is not signaled.

**Sign. alarms** [Alarm signalling] – if this option is enabled, the keypad will signal the alarms audibly. The alarm is signaled during the KEYPAD'S ALARM TIME (refer to the control panel programming manual). In the inactive mode, the alarms are not signaled. The alarms are not signaled, if the GRADE 2 option is enabled in the control panel.


**Quick arming – Partition 1** [Part.1 QuickArm] – if this option is enabled, quick arming (without user authorization) of the partition 1 is possible. The quick arming is not possible, if the GRADE 2 option is enabled in the control panel.

**Quick arming – Partition 2** [Part.2 QuickArm] – if this option is enabled, quick arming (without user authorization) of the partition 2 is possible. The quick arming is not possible, if the GRADE 2 option is enabled in the control panel.

**Keys sound** – with this option enabled, pressing the keypad keys is confirmed by beeps.

**Sign. trbl in part. arm** [Trbl.in part.arm] – if this option is enabled, the  LED goes off after both partitions are fully armed (if the option is disabled, the LED goes off after just one of the partitions is armed in any mode).

**Show code entering** [Code entry ind.] – if this option is enabled, entering the code is presented on the keypad display by asterisks.

**Chime on/off** – if this option is enabled, the chime signal can be enabled/disabled by means of the  key (the key is to be pressed for about 3 seconds).



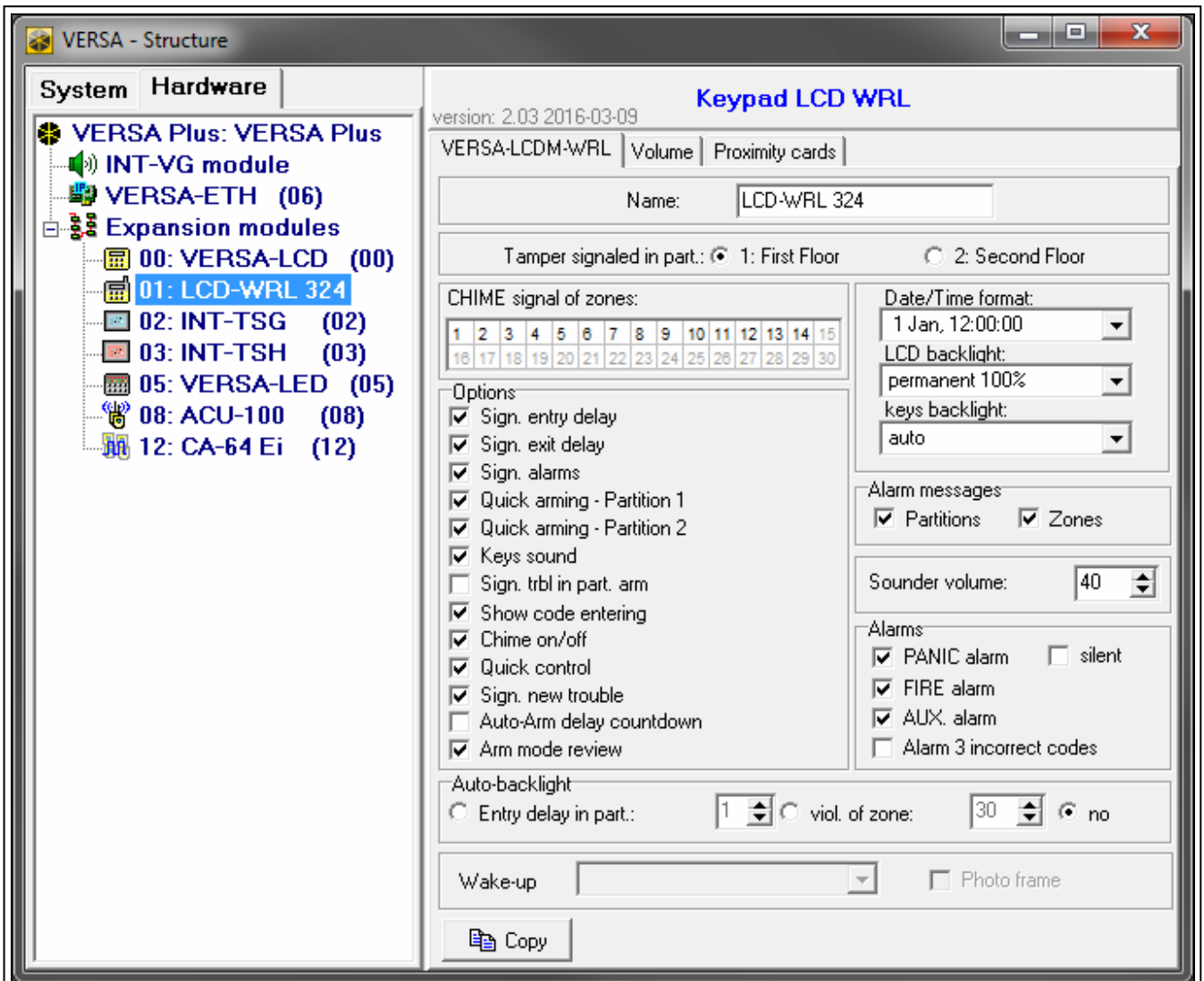




Fig. 4. DLOADX program: keypad settings stored in the control panel.

**Quick control** – if this option is enabled, the users can control the outputs by using the number keys. When programming the control panel, the 15. CONTROLLED outputs must be assigned to the keys (refer to the control panel programming manual).

**Sign. new trouble** [New trbl.signal.] – if this option is enabled, the keypad will audibly signal occurrence of any new trouble (additionally, the TROUBLE MEMORY UNTIL REVIEW option must be enabled in the control panel – refer to the control panel programming manual). The signaling will be turned off after reviewing the trouble with the 7. SYSTEM STATE user function. In the inactive mode, new troubles are not signaled. The new troubles will not be signaled, if the GRADE 2 option is enabled in the control panel.

**Auto-Arm delay countdown** [Autoarm signal.] – if this option is enabled, the auto-arm delay countdown is signaled acoustically. In the inactive mode, the auto-arm delay countdown is not signaled.

**Arm mode review** [Arm mode check.] – if this option is enabled, holding down the  key for about 3 seconds will display information on the partition status. The users cannot check the partition status using the  key, if the GRADE 2 option is enabled in the control panel.

**Date/Time format** – the way how date and time will be presented on the display.

**LCD backlight** – the way how the display backlight will work in the active mode:

**not present** – disabled.

**permanent 50%** – enabled: brightness 50%.

**permanent 100%** – enabled: brightness 100%.

**auto 0-50%** – enabled: brightness 50%.

**auto 0-100%** – enabled: brightness 100%.

**auto 50%-100%** – enabled: brightness 100%.

**Keys backlight** – the way how the keys backlight will work in the active mode:

**not present** – disabled.

**auto** – enabled.

**permanent** – enabled.

### Alarm messages

**Partitions** [Part.alarm msg.] – if this option is enabled, messages on partition alarms will be displayed (they contain the name of partition).

**Zones** [Zone alarm msg.] – if this option is enabled, messages on alarms from zones will be displayed (they contain the name of zone). The zone alarm messages have the priority.



*The messages will not be displayed, if the GRADE 2 global option is enabled.*

### Alarms

**PANIC alarm** – if this option is enabled, pressing the **#** key for approx. 3 seconds will trigger the panic alarm.

**silent** [Silent panic] – if this option is enabled, the panic alarm triggered from the keypad will be a silent one (without loud signal). The option is available, if the PANIC ALARM option is enabled.

**FIRE alarm** – if this option is enabled, pressing the **\*** key for approx. 3 seconds will trigger the fire alarm.

**AUX. alarm** [Medical alarm] – if this option is enabled, pressing the **0** key for approx. 3 seconds will trigger the auxiliary (medical) alarm.

**Alarm 3 incorrect codes** [3 wrong codes] – if this option is enabled, entering invalid code three times will trigger the alarm.



*The auto-backlight parameters do not affect the wireless keypad performance.*

### 4.2.2 Volume

The screenshot displays the 'Keypad LCD WRL' configuration window. On the left, a tree view shows the system structure under 'VERSA Plus: VERSA Plus', with '01: LCD-WRL 324' highlighted. The main area shows a 'Volume' slider and several other sliders for different alarm types, all positioned between 'min.' and 'max.' markers.

Fig. 5. DLOADX program: keypad volume settings.

**Volume** – volume level of the beeps generated during keypad operation (key pressing, confirmation of performed operation, etc.).

**Chime** – volume level of the beeps generated after zone violation (CHIME).

**Entry delay** – volume level of the entry delay beeps.

**Exit delay** – volume level of the exit delay beeps.

**Fire alarm** – volume level of the fire alarm beeps.

**Burglary alarm** – volume level when signaling burglar, panic and auxiliary (medical) alarms.

**Warning alarm** – volume level when signaling warning alarms.

**Trouble signaling** – volume level when signaling troubles.

### 4.2.3 Proximity cards

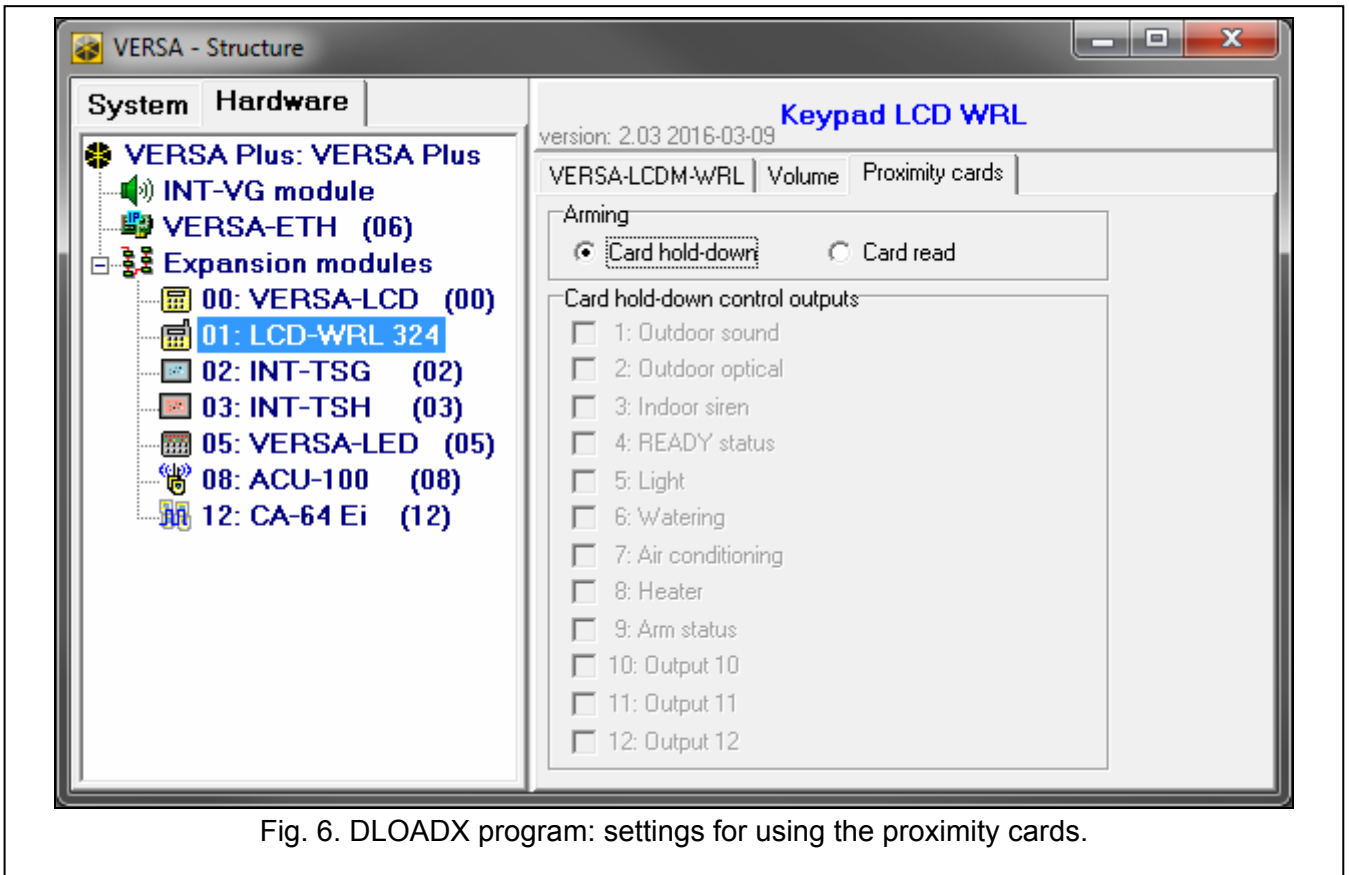


Fig. 6. DLOADX program: settings for using the proximity cards.

#### Arming

**Card hold-down** – if you select this option, the user will have to bring the card close to the keys and hold it still for about 3 seconds to arm the system.

**Card read** – if you select this option, the user will only have to bring the card close to the keys to arm the system.



*When configuring the keypad by using functions available in the service mode, use the PROX.CARD - ARMS option to define how to arm the system using the proximity card (option enabled = CARD READ; option disabled = CARD HOLD-DOWN).*

#### Card hold-down control outputs

If you have selected the CARD READ option, you can permit the users to toggle the 15. CONTROLLED type outputs (the output status will change after the card is brought close to the keys and held still for about 3 seconds). Select the outputs the users will be allowed to control.

## 5. Operation

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When in active mode, the wireless keypad enables operation and programming of the alarm system. In order to enter the active mode, press any key on the keypad.



*In addition to starting the active mode, pressing a key will also have other consequences, as appropriate for the given key. The keypad will treat each key pressing exactly in the same way.*

In the active mode, the LCD wireless keypad works much in the same way as the LCD wired keypad. Additionally, it enables the alarm system to be operated using a proximity card. For the way of using the keypad, please refer to the control panel user and programming manuals. The manuals are available in electronic form on the [www.satel.eu](http://www.satel.eu) website.

## 6. Specifications

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Operating frequency band .....	868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area) .....	up to 500 m
Batteries .....	2 x CR123A 3 V
Standby current consumption, BT1 battery .....	0.005 mA
Maximum current consumption, BT1 battery .....	50 mA
Standby current consumption, BT2 battery .....	0.001 mA
Maximum current consumption, BT2 battery (card reader disabled).....	45 mA
Maximum current consumption, BT2 battery (card reader enabled) .....	90 mA
Environmental class according to EN50130-5.....	II
Operating temperature range .....	-10°C...+55°C
Maximum humidity.....	93±3%
Enclosure dimensions .....	139 x 124 x 22 mm
Weight .....	280 g