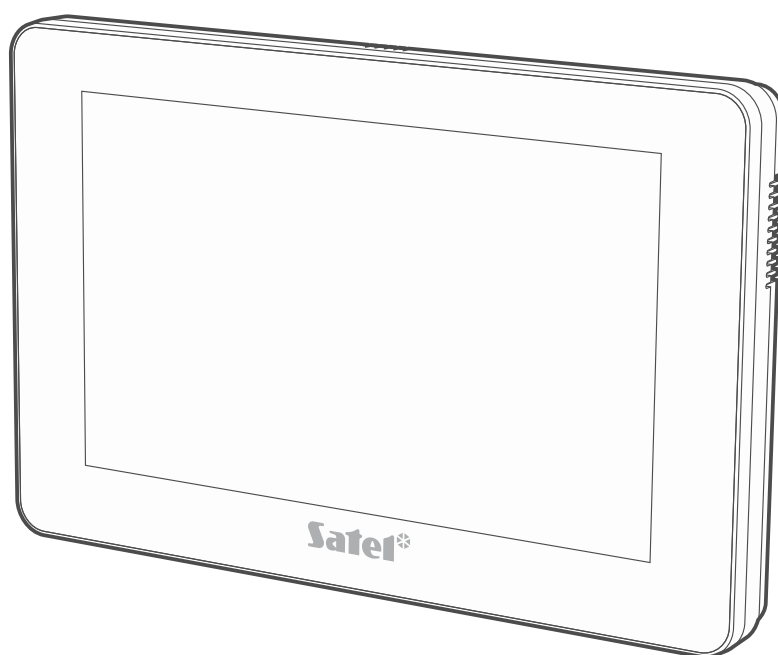


Keypad  
**INT-TSH2**

Firmware version 2.01

**EN**



**INSTALLER MANUAL**

int-tsh2\_i\_en 01/23

**Satel**  <sup>®</sup>

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tel. +48 58 320 94 00  
[www.satel.pl](http://www.satel.pl)

## IMPORTANT

The keypad 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.

### Warning

This is a Class A product. In a domestic environment this product may cause radio frequency interference.

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.

Please visit us at:  
<https://support.satel.pl>

**The declaration of conformity may be consulted at [www.satel.pl/ce](http://www.satel.pl/ce)**

The following symbols may be used in this manual:



- note,



- caution.

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The INT-TSH2 keypad allows you to operate and program control panels of the INTEGRA series (firmware version **1.21** or newer) and the VERSA series (firmware version 1.06 or newer).

## 1. Features

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- Touch screen:
  - diagonal: 7",
  - resolution: 1024 x 600,
  - color depth: 24 bpp.
- Customizable user screens.
- Widget-based operation of the alarm system.
- Alarm system control by means of macro commands to facilitate the running of functions.
- Possibility to display plans of the protected site.
- Intuitive icon-based user menu.
- Customizable screensaver.
- Possibility to display a slideshow.
- Built-in reader of microSD memory cards.
- Built-in speaker for signaling.
- 2 programmable hardwired zones (supported by the INTEGRA series control panels):
  - support for NO and NC type detectors, as well as roller shutter and shock detectors,
  - support for EOL, 2EOL and 3EOL configuration (3EOL for the INTEGRA Plus control panels),
  - programmable end-of-line resistor value.
- Tamper protection against enclosure opening and removal from mounting surface.

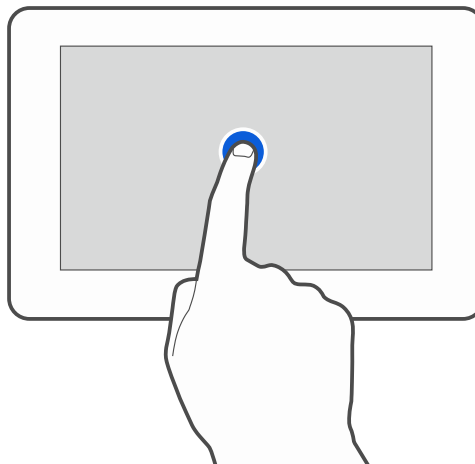
## 2. Using the touch screen

---

Use the gestures described below.

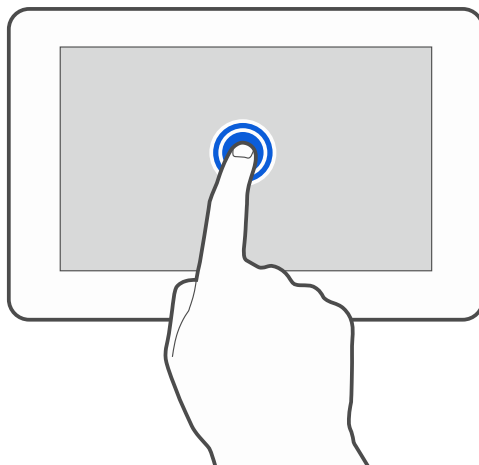
### Tap

Tap on an item on the screen.



## Tap and hold

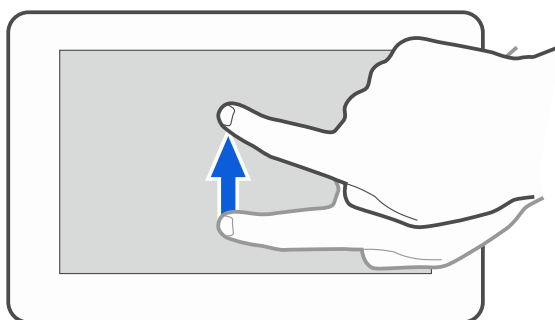
Tap on an item on the screen and hold for 3 seconds.



## Swipe up / down

Tap the screen and slide your finger up or down to:

- swipe the screen up / down (move between the screensaver / user screen / user menu home screen),
- scroll through a list.

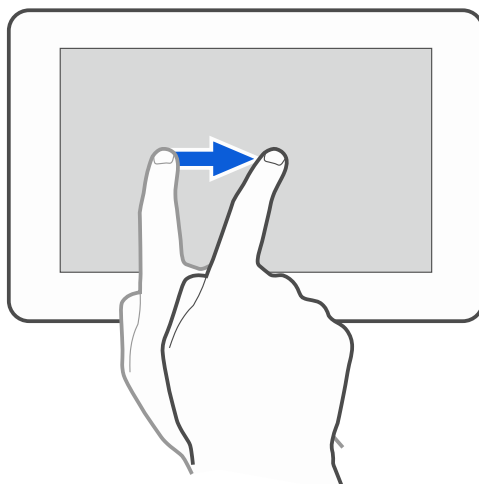


## Swipe right / left

Tap the screen and slide your finger right or left to swipe the screen right / left (go to the previous / next screen). When the screensaver is active, swipe right / left to start / end the slideshow.

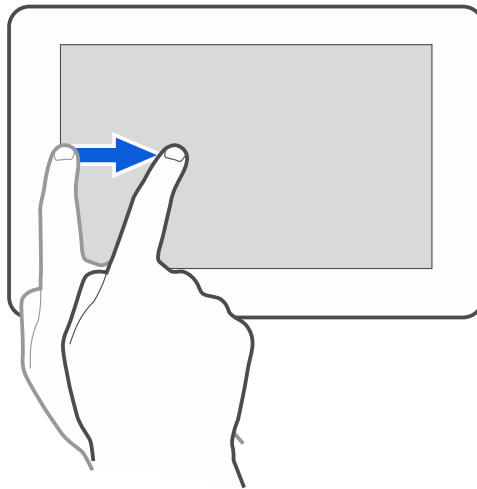


*The slideshow is available when a memory card containing image files is installed in the keypad.*



### Swipe right from the edge (return to the previous screen)

Tap the screen close to the left edge and slide your finger right to return to the previous screen. This gesture is supported in the user menu and the service menu. You will not be able to exit the service mode by using this gesture.



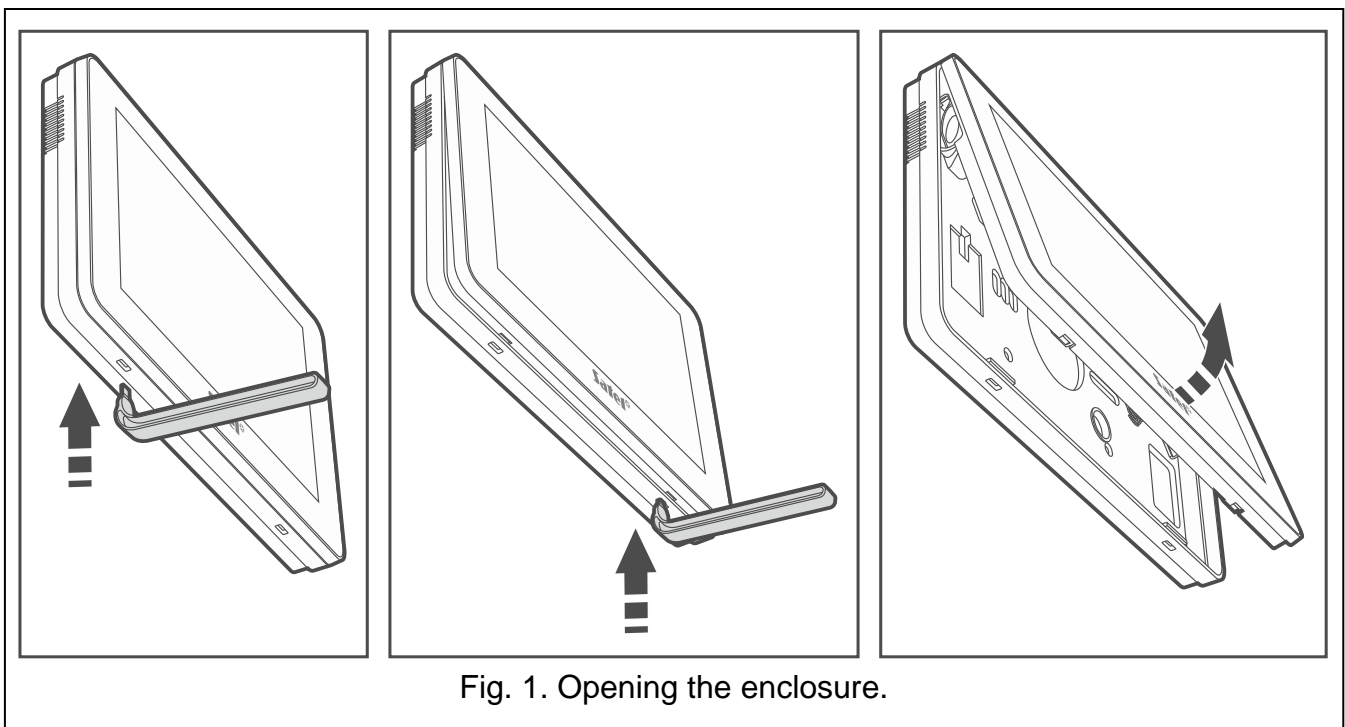
## 3. Installation



**Disconnect power before making any electrical connections.**

The INT-TSH2 keypad is designed for indoor installation. The place of installation should be readily accessible to the system users.

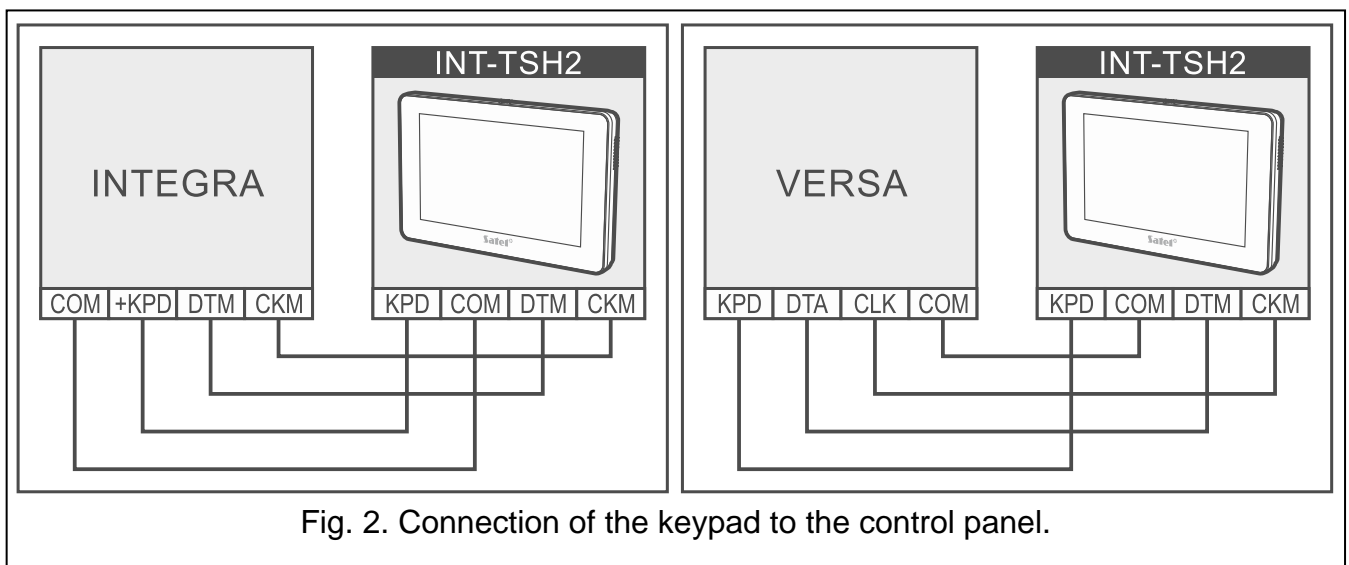
1. Open the keypad enclosure (Fig. 1). The enclosure opening tool, shown in the illustration, is included in the keypad delivery set.



2. Place the enclosure base on the wall and mark the location of mounting holes.
3. Drill the holes for wall plugs (screw anchors).
4. Run the wires through the opening in the enclosure base.

5. Use wall plugs (screw anchors) and screws to fasten the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for drywall, etc.).
6. Connect the DTM, CKM and COM keypad terminals to the appropriate terminals of the control panel communication bus (Fig. 2). It is recommended that the unshielded non-twisted cable be used for making the connection. If you use the twisted-pair type of cable, remember that CKM (clock) and DTM (data) must not be sent through one twisted-pair cable. The wires must be run in one cable. The length of cables must not exceed 300 m.
7. If you wish to connect any detectors to the Z1 and Z2 zones, connect the wires to the terminals (connect the detectors in the same way as to the control panel onboard zones – **use the keypad COM terminal**).
8. Connect the supply wires to the KPD and COM terminals. The keypad can be powered directly from the control panel, from an expander with power supply or from an additional power supply. The table shows the requirements regarding the power wires (KPD and COM), if conductors with 0.5 mm diameter are used.

Distance from control panel	Number of paralel connected wires
up to 25 m	1
25 – 50 m	2
50 – 75 m	3
75 – 100 m	4



9. Place the front panel onto the catches and snap close the enclosure.

### 3.1 Description of terminals

- KPD** - power supply input.
- COM** - common ground.
- DTM** - data.
- CKM** - clock.
- Z1, Z2** - zones.
- RSA, RSB** - terminals provided for future applications (RS-485).

## 3.2 Address setting

Each keypad connected to the control panel must have its individual address set in it. By default, address 0 is set in the keypad.

The keypad must have an address set in it:

- for the INTEGRA 24 or INTEGRA 32 control panel: in the range from 0 to 3,
- for other INTEGRA or INTEGRA Plus control panel: in the range from 0 to 7,
- for the VERSA series control panel: in the range from 0 to 5.



*When started with factory default settings, the control panel will support all keypads connected to the bus, irrespective of the addresses set in them. In all other cases, the control panel will block operation of the keypads having identical addresses.*

If the keypad is connected to the INTEGRA series control panel, the address set in the keypad determines the numbers to be given to the keypad zones (see the installer manual for the INTEGRA or INTEGRA Plus control panels).


You can set the address:

- after you connect the factory new keypad to the control panel and start the keypad. You will be able to use the keypad after you set the address.
- after you started the service mode. The address setting function is available in the service menu.
- without starting the service mode. When operation of the keypads is blocked and it is impossible to start the service mode (e.g. the address of the new keypad and the address of the keypad installed previously are the same), it is the only way to set the address.

### 3.2.1 Address setting in the factory new keypad



*The keypad must be connected to the control panel communication bus.*

1. Power on the keypad. The following message will be displayed: "This LCD address (n, 0-x)" [n – keypad address; 0-x – range of supported addresses].
2. Enter the keypad address and tap . The keypad will restart.

### 3.2.2 Address setting in the service mode

#### Keypad in the INTEGRA system

##### ***Starting the service mode in the INTEGRA system***

1. Tap the keypad screen. The user screen will be displayed.
2. Swipe the screen up. The on-screen keypad will be displayed (Fig. 3).



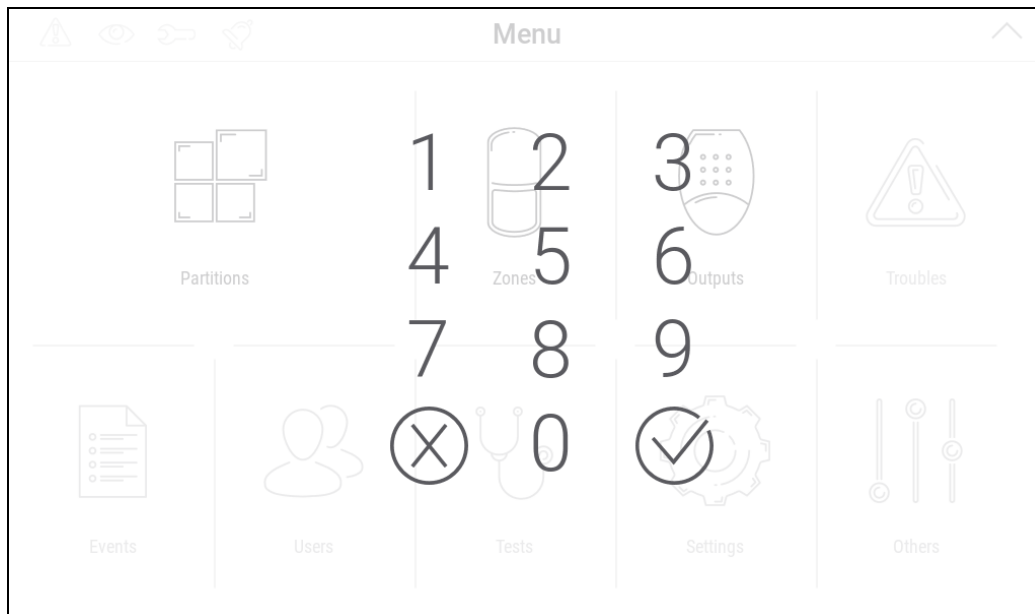



Fig. 3. On-screen keypad.

3. Enter the service code (by default: 12345) and tap . The user menu home screen will be displayed (Fig. 4).

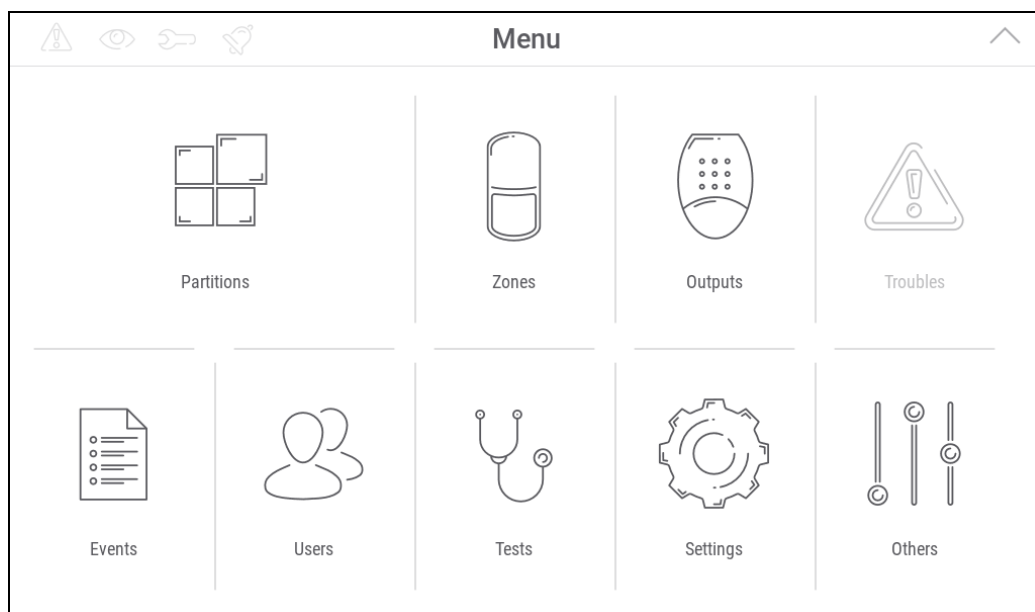


Fig. 4. User menu home screen.

4. Tap the "Others" function. A list of functions will be displayed (Fig. 5).

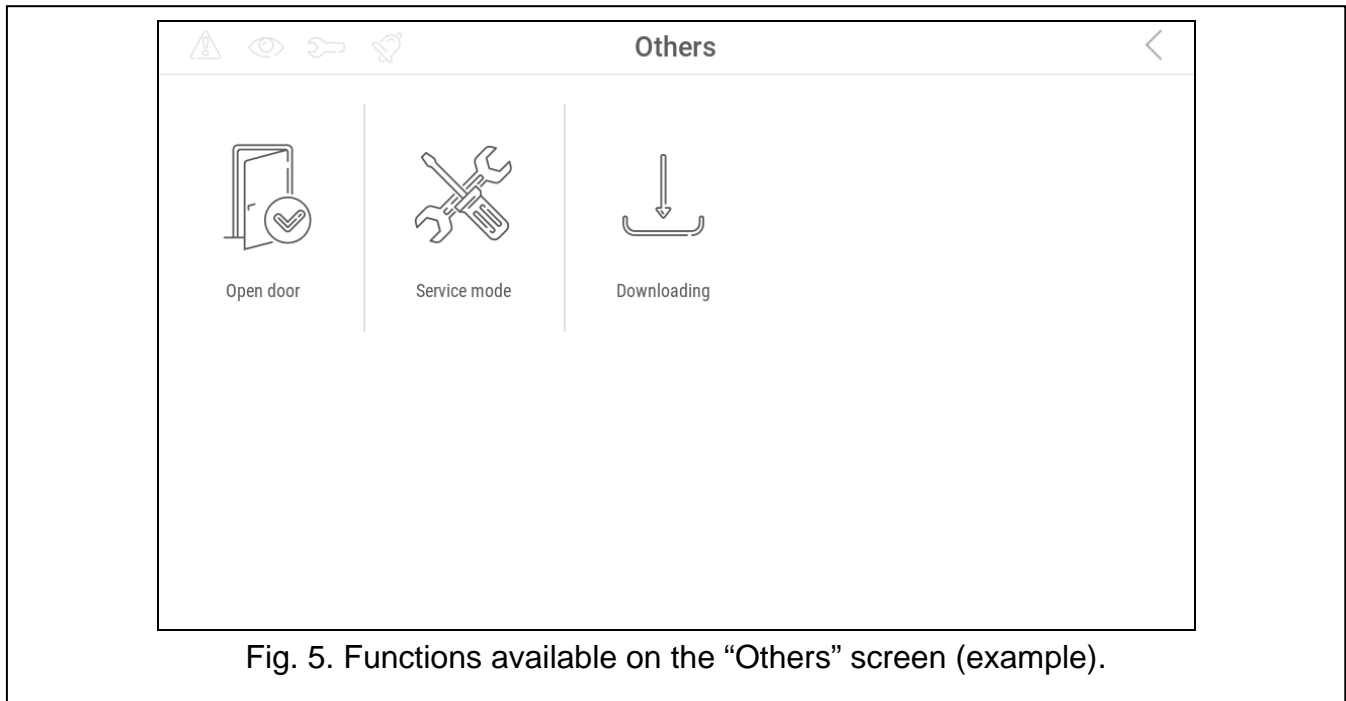


Fig. 5. Functions available on the “Others” screen (example).

5. Tap the “Service mode” function. The service menu will be displayed (Fig. 6).

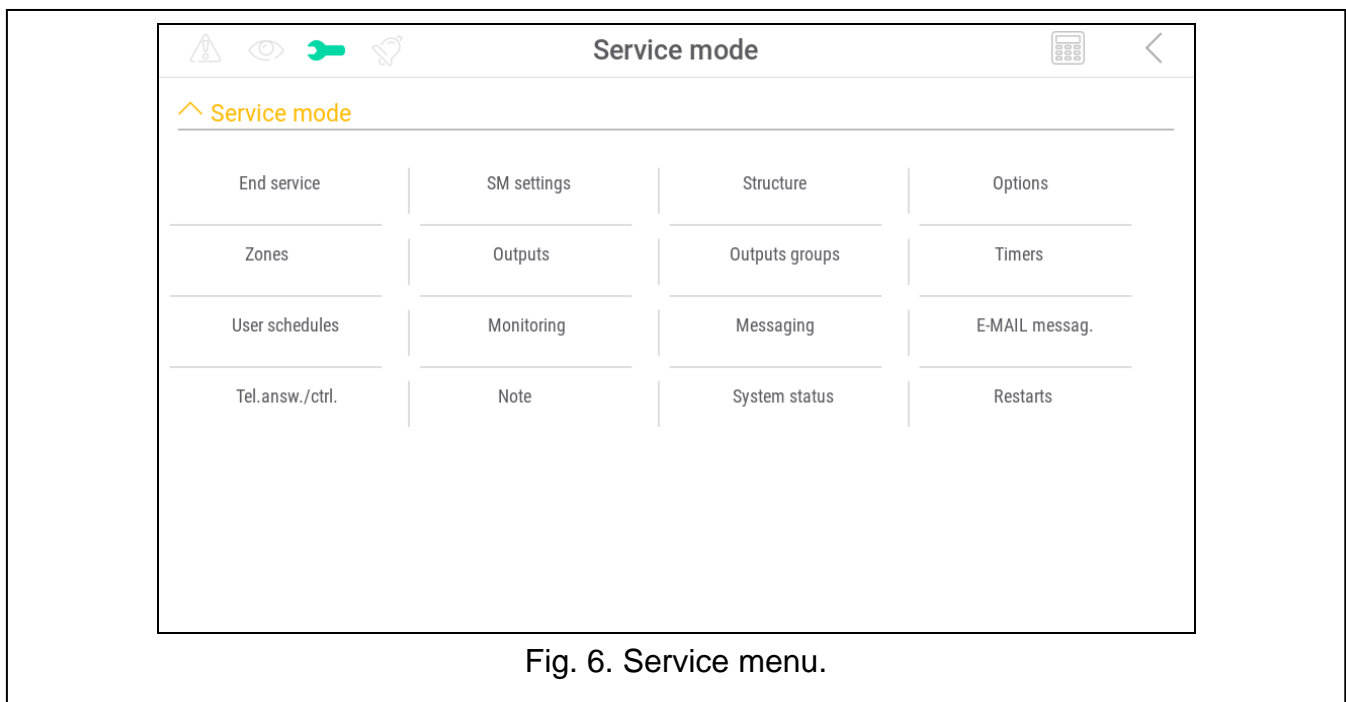


Fig. 6. Service menu.



*The procedure described above applies to the keypad with factory default settings. You can configure the keypad so that the access to the user screen is code-protected (a keypad will appear before the user screen is displayed).*

### **Address setting in the INTEGRA system**


1. Tap “Structure” ► “Hardware” ► “Identification” ► “Keypads addr.”. The message “This LCD address (n, 0-x)” will be displayed in all keypads [n – keypad address; 0-x – range of supported addresses] (Fig. 7).

This LCD address

(4, 0-7):



Fig. 7. Address setting.

2. Enter the new keypad address and tap . The keypad will restart. The service menu will be displayed.



*If you fail to set the new address within 2 minutes after you started the “Keypads addr.” function, the function will be terminated automatically and the keypad will restart.*

## Keypad in the VERSA system

### Starting the service mode in the VERSA system

1. Tap the keypad screen. The user screen will be displayed.
2. Swipe the screen up. The on-screen keypad will be displayed (Fig. 8).

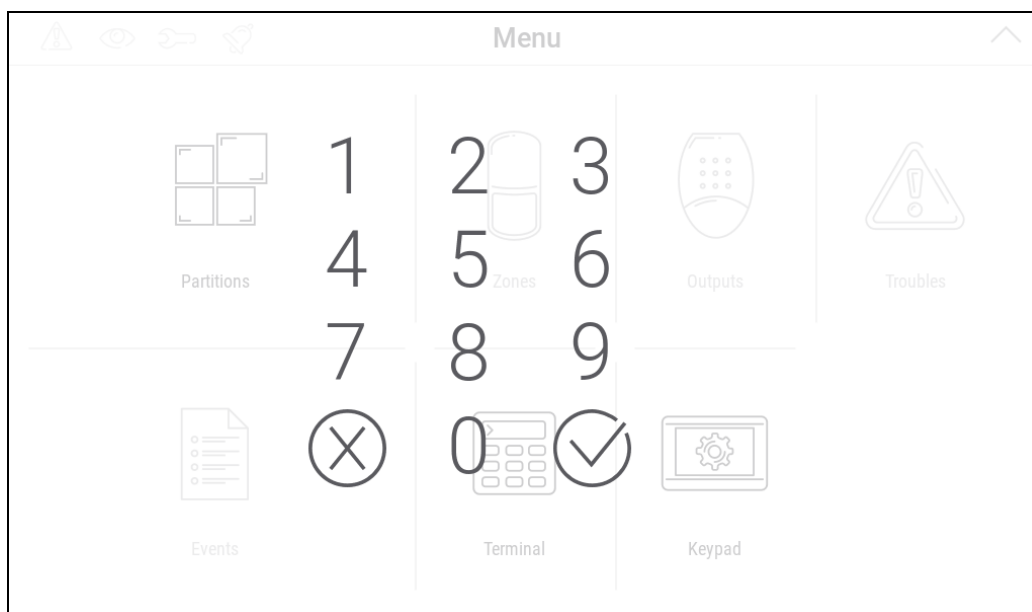



Fig. 8. On-screen keypad.

3. Enter the service code (by default: 12345) and tap . The user menu home screen will be displayed (Fig. 9).

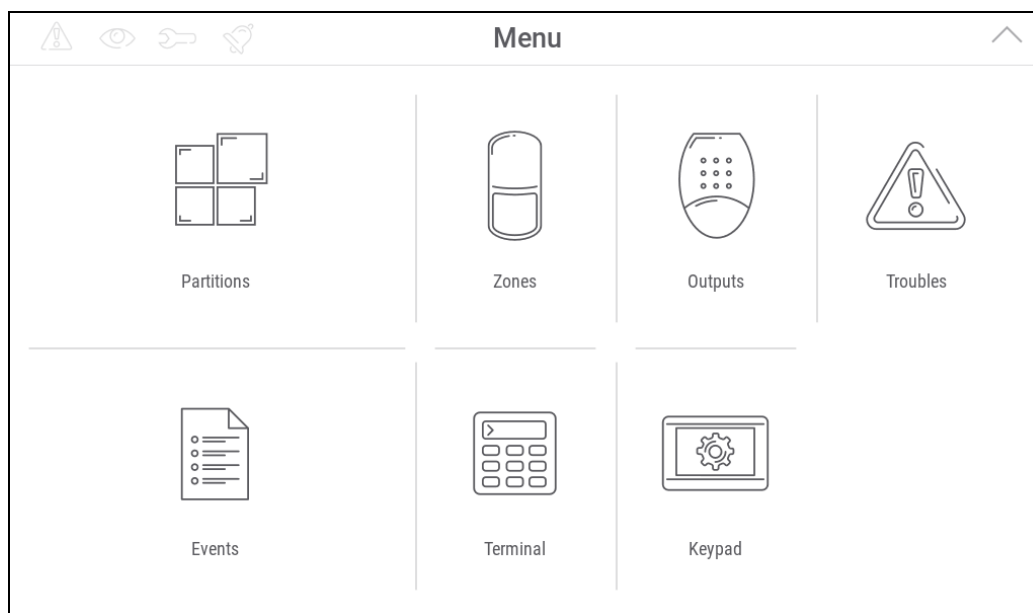


Fig. 9. User menu home screen.

4. Tap the "Terminal" function. The terminal will be displayed (Fig. 10).

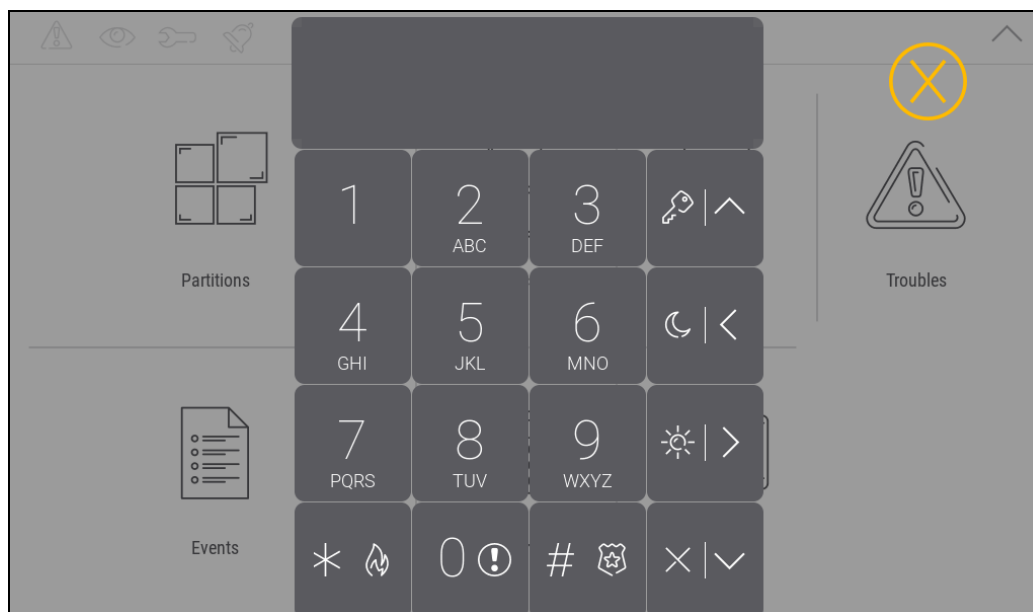





Fig. 10. Terminal.

5. Enter the service code (by default: 12345) and tap .

6. Tap   . The service menu will be displayed (Fig. 11).

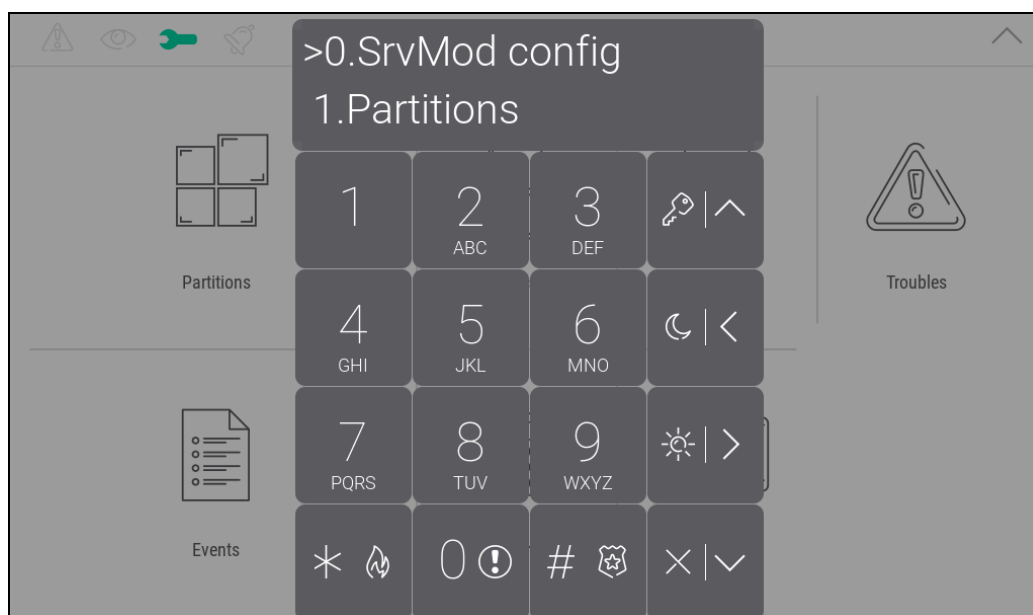






Fig. 11. Terminal displaying the service menu.



*The procedure described above applies to the keypad with factory default settings. You can configure the keypad so that the access to the user screen is code-protected (a keypad will open before the user screen is displayed).*

### Address setting in the VERSA system

1. Tap    . The “Keypads addr.” function will start. The message “This LCD address (n, 0-5)” will be displayed in all keypads [n – keypad address; 0-5 – range of supported addresses] (Fig. 12).

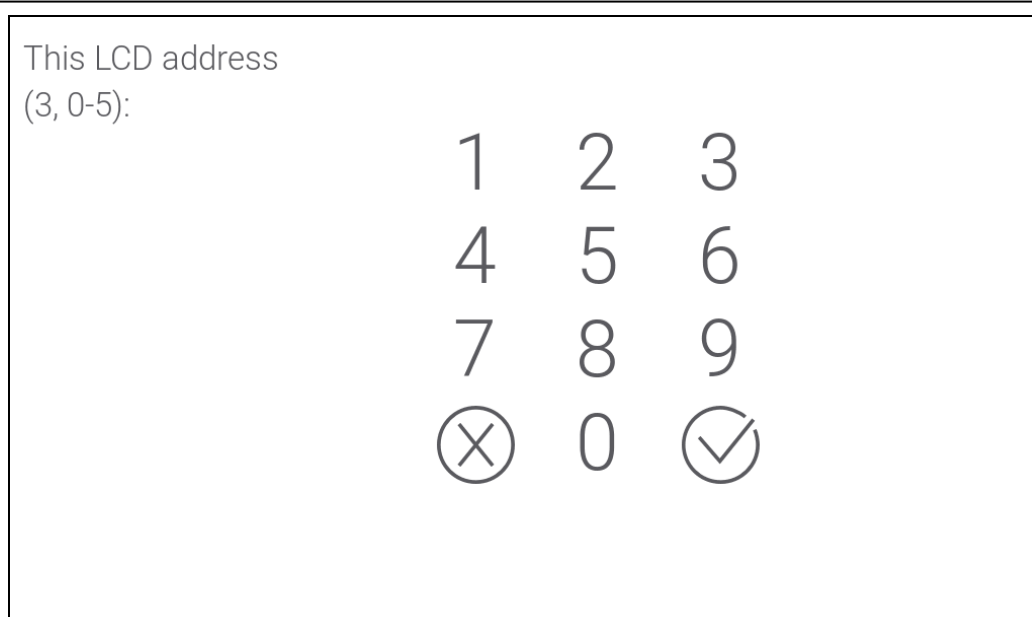



Fig. 12. Address setting.

2. Enter the new keypad address and tap . The keypad will restart.



*If you fail to set the new address within 2 minutes after you started the “Keypads addr.” function, the function will be terminated automatically and the keypad will restart.*

### 3.2.3 Address setting without starting the service mode

1. Power off the keypad.
2. Disconnect wires from the keypad terminals CKM and DTM.
3. Short the keypad terminals CKM and DTM.
4. Power on the keypad. Information about the set address and the on-screen keypad will be displayed.
5. Enter the new address and tap . The keypad will restart. Information about the set address and the on-screen keypad will be displayed.
6. Power off the keypad.
7. Open the keypad terminals CKM and DTM.
8. Connect wires to the keypad terminals CKM and DTM.
9. Power on the keypad.

## 3.3 Identification

The devices connected to the control panel communication bus are supported correctly only if they are identified. Device identification is required at the first start-up of the control panel, and each time when a new device is added or address is changed in a device supported by the control panel. To run the identification function you can use the keypad or the DLOADX program.



*Disconnecting an identified device from the communication bus will trigger the tamper alarm.*

### 3.3.1 Keypad identification in the INTEGRA system

#### Keypad

1. Start the service mode (see “Starting the service mode in the INTEGRA system” p. 6).
2. Tap “Structure” ► “Hardware” ► “Identification” ► “LCD keypads id.”. The identification function will start. The terminal will be displayed.
3. When identification is completed, information about the devices connected to the keypad bus will be displayed. Tap to return to menu.

#### DLOADX program








1. Click in the main menu. The “Structure” window will be displayed.
2. Click on the “Hardware” tab.
3. Click on the “Keypad” branch.
4. Click on “Keypads identification”. The identification function will start.
5. When a window will be displayed with information that the identification is complete, click “OK”.


### 3.3.2 Keypad identification in the VERSA system

#### Keypad

1. Start the service mode (see “Starting the service mode in the VERSA system” p. 9).

2. Tap    . The identification function will start.
  3. When identification is completed, information about the devices found will be displayed.
- Tap  to return to the menu.

## DLOADX program

1. Click  in the main menu. The “VERSA – Structure” window will be displayed.
2. Click on the “Hardware” tab.
3. Click on the “Expansion modules” branch.
4. Click “Identification”. The identification function will start.
5. When identification is completed, a window will be displayed in which you will be asked if you want to read the data. Click “OK”.

## 4. Memory card

---


The keypad supports the microSD and microSDHC memory cards. You can save to the memory card:

- image files to be displayed in the slideshow,
- image files to be displayed on the user screens (protected site plan or background image),
- audio files to be used for CHIME feature,
- file with a new version of the keypad firmware when the firmware is to be updated.



*The memory card should be purchased separately.*

*To access the memory card slot, open the keypad enclosure. If the alarm system is working, start the service mode before you open the enclosure.*

The memory card slot is marked with the  symbol.

### 4.1 Inserting the card

---

When you insert the card into the slot, make sure to direct the card contacts toward the display.

Keep pushing the card into the slot until it clicks into place.

### 4.2 Removing the card

---

Press the card to release it and remove it from the slot.

### 4.3 Slideshow

---

The keypad can run a slideshow of images if you saved the image files to the memory card. You can do it in the DLOADX program.

### 4.4 Site plan / background image

---

It is possible to display images on the user screens. The images can show a plan of the protected site or serve as a background image. If you want to use images other than the

ones offered by SATEL, you must select them while configuring the keypad settings in the DLOADX program and save them to the memory card.

## 4.5 Audio files for CHIME signaling

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The keypad can use sounds other than the default ones for CHIME signaling. Go to the DLOADX program to assign different sounds to particular system zones and save the audio files to the memory card.

## 4.6 New firmware

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If a new version of the keypad firmware is published at [www.satel.eu](http://www.satel.eu), you can download it and save it to the card in order to later update the keypad firmware (see "Updating the keypad firmware" p. 38).

## 5. Preparing the image files

---

The slideshow images or user screen background images other than the ones provided by SATEL must be in the JPG format. You can prepare the image files using the PICUSTO app available at [www.satel.pl](http://www.satel.pl). The app is used to crop, resize and rotate images.

Once the files are ready, you can save them to the memory card while configuring the keypad settings in the DLOADX program.

You can save the slideshow images directly in the memory card "photo" folder. If there is no such folder, create it first. The folder is created automatically, if you upload the files using the DLOADX program.

## 6. Configuring

---

This section applies to the settings available only to the installer / service technician. The settings available to the keypad user are described in the user manuals.

### 6.1 Keypad in the INTEGRA system

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To configure the keypad settings you can use:

- DLOADX program: → "Structure" window → "Hardware" tab → "Keypads" branch → [keypad name] (Fig. 13). Required program version: 1.21.000 (or newer).
- keypad: ► "Service mode" ► "Structure" ► "Hardware" ► "LCD keypads" ► "Settings" ► [keypad name].



*Only the DLOADX program allows you to configure all settings.*

#### 6.1.1 Setting description

Shown in square brackets are the names of parameters and options displayed in the keypad.

#### Keypad

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

**Partitions managed by keypad** [Partitions] – partitions which can be armed / disarmed or in which an alarm may be cleared by using the keypad. These functions are available to the users who have a suitable authority level and access to those partitions.



*Using the service code you can operate all partitions, irrespective of which partitions are operated by the keypad.*



**Show alarms of partitions [Alarms]** – the keypad can signal burglary alarms from selected partitions.

**Show fire alarms of partitions [Fire alarms]** – the keypad can signal fire alarms from selected partitions.

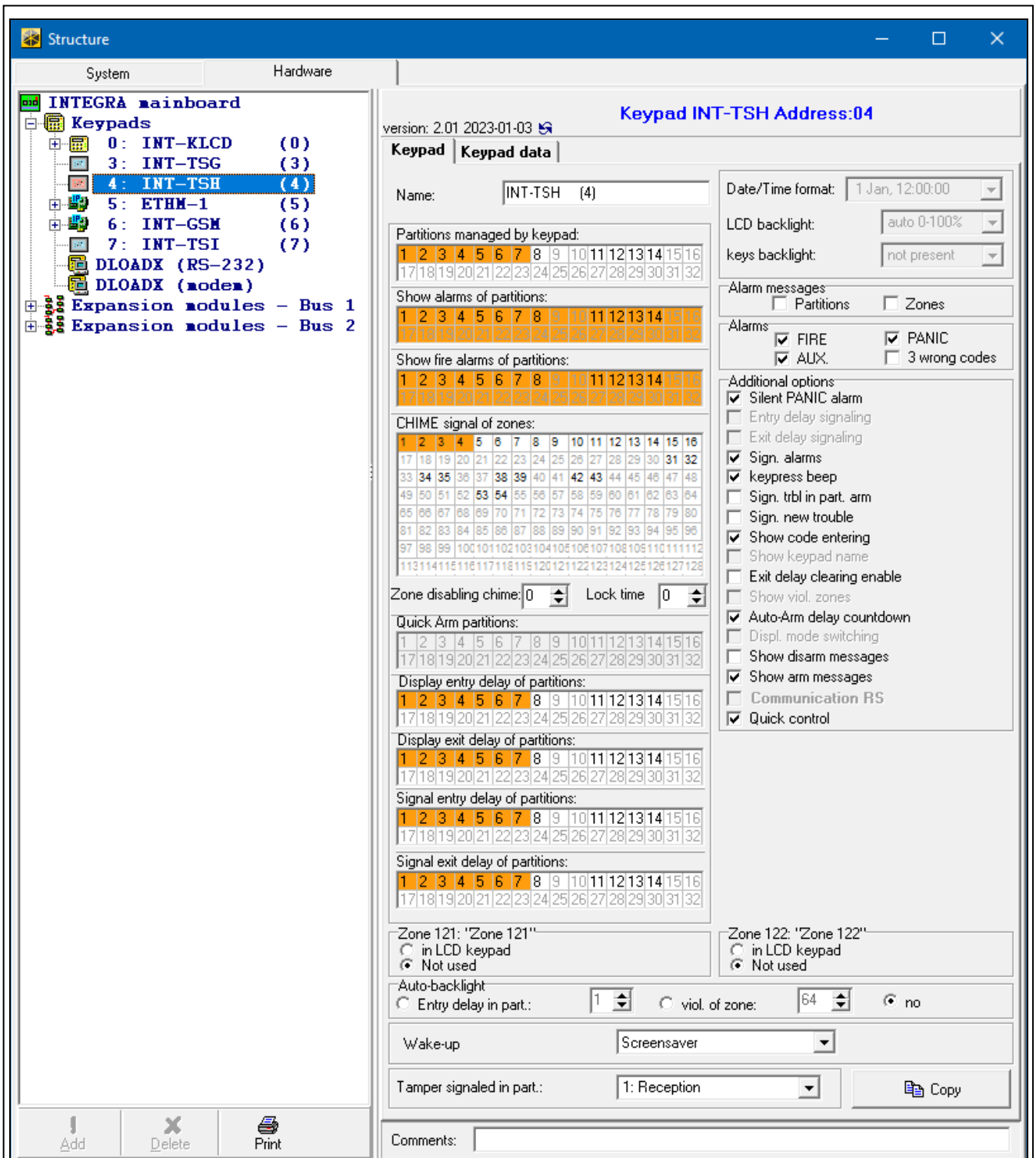


Fig. 13. DLOADX program: keypad in the INTEGRA system – “Keypad” tab (example settings).

**CHIME signal of zones [Chime zones]** – violation of the selected zones is audibly signaled by the keypad.

**Zone disabling chime** [Chime bps. zone] – violation of this zone will disable the CHIME feature.



*The zone 256 cannot disable the CHIME feature.*

**Bypass time** [Chime bps. time] – time during which the CHIME signal will be disabled after the zone which disables the signaling is violated (time is counted from the zone restore). If you enter 0, the signaling will not be disabled.

**Display entry delay of partitions** [Show entry del.] – the keypad displays information about entry delay countdown in selected partitions.

**Display exit delay of partitions** [Show exit delay] – the keypad displays information about exit delay countdown in selected partitions.

**Signal entry delay of partitions** [Sign.entry del.] – the keypad audibly signals the entry delay countdown in selected partitions.

**Signal exit delay of partitions** [Sign.exit delay] – the keypad audibly signals the exit delay countdown in selected partitions.

### **Alarm messages**

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

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

### **Alarms**

**FIRE** [Fire alarm] – if this option is enabled, the user can trigger a fire alarm from the keypad by using a widget.

**PANIC** [Panic alarm] – if this option is enabled, the user can trigger a panic alarm from the keypad by using a widget or by tapping the screen and holding for 3 seconds when the screensaver or the slideshow is displayed.

**AUX.** [Medical alarm] – if this option is enabled, the user can trigger a medical alarm from the keypad by using a widget.

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

### **Additional options**

**Silent PANIC alarm** [Silent panic] – if this option is enabled, the panic alarm triggered from the keypad will be a silent one, i.e. the keypad will not indicate it, there will be no audible signal, but the alarm will be reported to the monitoring station. The silent panic alarm is useful when the control panel is sending events to the monitoring station, but unauthorized persons should not be aware of the alarm being triggered. This option is available when the PANIC option is enabled.

**Sign. alarms** [Alarm signal.] – if this option is enabled, the keypad will signal alarms audibly.

**Keypress beep** [Key sound] – if this option is enabled, tapping the screen is confirmed by a sound.

**Sign. trbl. in part. arm** [Trbl.in p.arm.] – if this option is enabled, the trouble information on the status bar will be hidden after all partitions managed by the keypad are armed (if this option is disabled, the trouble information on the status bar will be hidden after just one of the partitions is armed).

**Sign. new trouble** [New trbl. sign.] – if this option is enabled, the keypad will audibly signal the occurrence of a new trouble (if the “Trouble memory until review” option is enabled). New trouble signaling is cleared after the troubles have been reviewed by the user.

**Show code entering** [Show code ent.] – if this option is enabled, entering the code is presented on the keypad screen by asterisks.

**Exit delay clearing enable** [Fin.exit delay] – if this option is enabled, the user can shorten the exit delay time by using a widget or a function. The exit delay time can be shortened in partitions with the “Exit delay clearing” option enabled, when the countdown is running.

**Auto-Arm delay countdown** [Auto-arm delay] – if this option is enabled, the keypad informs the users about the auto-arm delay countdown in partition (message / sound).

**Show disarm messages** [Show disarming] – if this option is enabled, the keypad displays the disarming message irrespective of how the system has been disarmed. If this option is disabled, the keypad displays the disarming message only when the system has been disarmed from this keypad.

**Show arm messages** [Show arm] – if this option is enabled, the keypad displays the arming message. If this option is disabled, the arming message is not displayed.

**Quick control** [Control (8#)] – if this option is enabled, the user can control the outputs by using widgets without entering the user code.

## Zone

**in LCD keypad** – if you select this option, the keypad zone will be supported.

**Not used** – if you select this option, the keypad zone will not be supported.

## Auto-backlight

**Entry delay in part.** – if you select this option, the keypad will be woken up when the entry delay countdown begins in a selected partition.

**viol. of zone** – if you select this option, the keypad will be woken up when a selected zone is violated.

**no** – if you select this option, the keypad will be woken up only when the user taps the screen.

**Wake-up** – the way the keypad will respond to the wake-up (when the user taps the screen or a specified event occurs in the system):

**Screensaver** – screensaver will be displayed.

**User screen** – user home screen will be displayed.



*If you disable the screensaver (see option “No screensaver” p. 23), the user home screen will always be displayed after wake-up.*

**Tamper signaled in part.** [Tamper in part.] – partition where alarm will be triggered in the event of keypad tamper, triggering the alarm from keypad etc.

## Keypad data

Go to this tab to configure the settings that are stored in the keypad. These settings can only be configured in the DLOADX program.

The buttons located on the bottom of the window apply to all settings that are stored in the keypad.

**Read** – click to read data from the keypad.

**Write** – click to write data to the keypad.

**Quit** – click to cancel the reading / writing of data.

**Reset** – click to restore the factory default settings of the keypad (this command applies to the settings presented in the “Keypad data” tab).

**Export to file** – click to export the keypad data to a file.

**Import from file** – click to import the keypad data from a file.



*Before you make any changes, click on the “Read” button, and after you make the changes, click on the “Write” button. The settings stored in the keypad are not read /*

*written after you click on  /  in the main menu.*

## Macro Commands

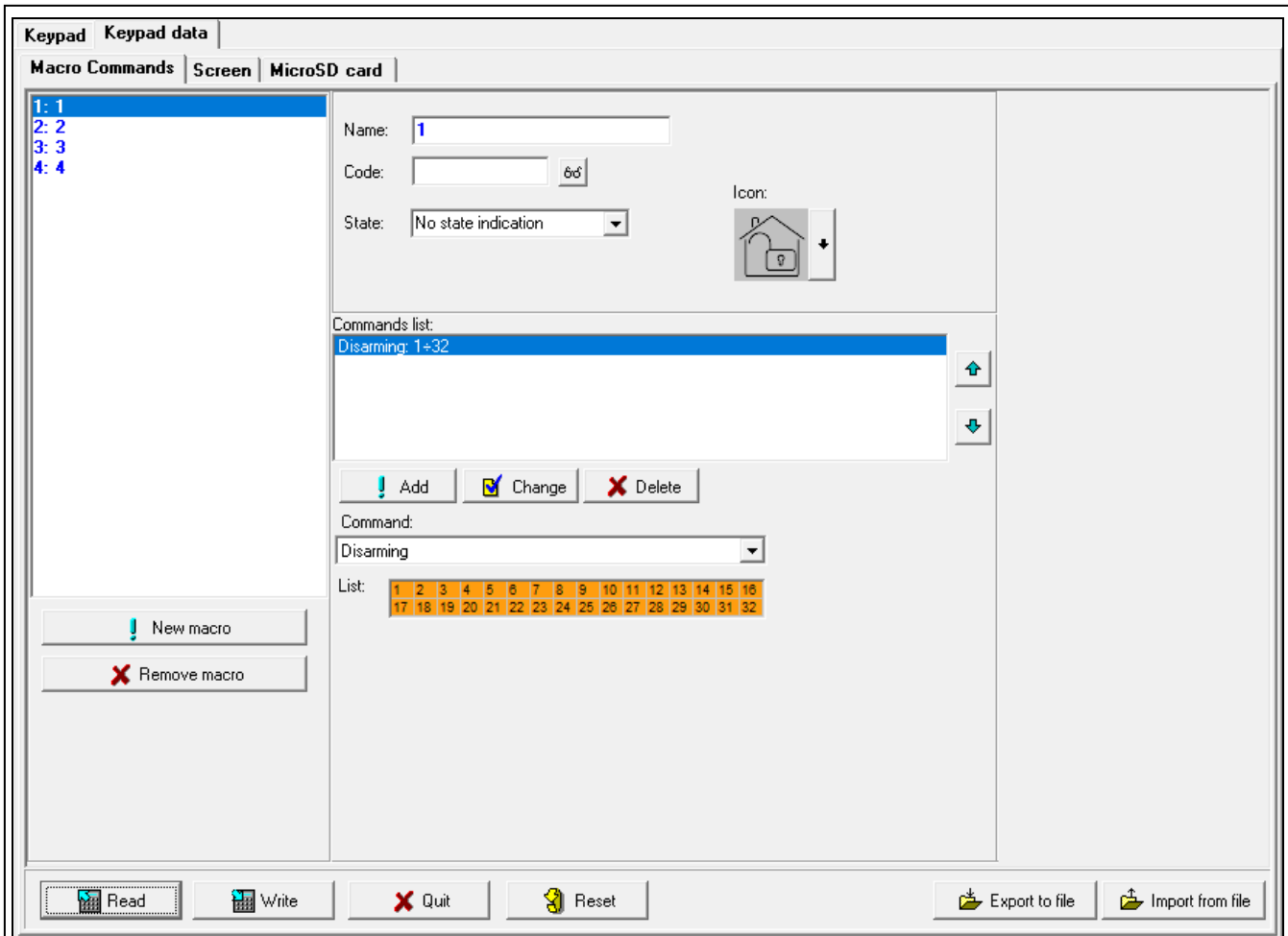



Fig. 14. DLOADX program: keypad in the INTEGRA system – “Macro command” tab (default settings).

A macro command is a sequence of actions to be performed by the control panel. Configure a macro command and add it to the user screen as a widget. This will help the user to operate the alarm system. Instead of performing several operations (e.g. in order to arm selected partitions), the user can tap a widget to run a macro command, and the control panel will execute the functions assigned to the macro command.

**New macro** – click to create a new macro command.

**Remove macro** – click to delete a selected macro command.

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

**Code** – code to be used when executing commands contained in the macro command. For execution of such commands to be possible, the code must be granted a suitable authority level. Click  to view the code.



*If, when running a macro command, it turns out that the code is invalid (e.g. it has been changed in the meantime), the user will be able to enter the correct code. It will be automatically saved to the keypad memory (replacing the invalid one).*

**State** – widget can inform the user by means of icons about the state of selected alarm system elements (e.g. partition armed by a macro command or output controlled by a macro command).


**No state indication** – if you select this option, the widget will not indicate the state (only one icon will be used).

**State follow input** – if you select this option, the widget will indicate the state based on the zone state (two icons will be used).

**State follow output** – if you select this option, the widget will indicate the state based on the output state (two icons will be used).

**Zone** – widget indicates the state of this zone if you selected the “State follow input” option. Select the zone whose state will be affected by the macro command (e.g. zone that supervises the operation of a device turned on / off by a macro command).

**Output** – widget indicates the state of this output if you selected the “State follow output” option. Select the output whose state will be affected by the macro command (e.g. the “21: Armed status” type output which turns on after partition is armed).



**Icon** – pictogram used to represent a macro command on the screen. Click  to select a pictogram.

**Off** – pictogram used to represent a macro command on the screen when the widget

indicates the inactive state. Click  to select a pictogram.

**Active** – pictogram used to represent a macro command on the screen when the widget


indicates the active state. Click  to select a pictogram.

**Commands list** – commands assigned to the currently highlighted macro command. The  and  buttons allow you to change the order of commands (moving the selected command up and down).

**Add** – click to add to the list a new command selected in the “Command” field.

**Change** – click to save the changes to the command settings that were made after adding the command to the list (otherwise, the changes will not be saved).

**Delete** – click to remove the highlighted command from the list.

**Command** – function that you can assign to the macro command. Click  to drop down the list of available functions, then click on the function that you want to assign to the macro command.



*The “KNX telegram” and “KNX telegram (v2)” functions allow you to control the KNX system if the INT-KNX or the INT-KNX-2 module is connected to the control panel.*

**List** – fields in this table represent the system elements (partitions / zones / outputs) that can be controlled by the function. The numbers of the fields in the table correspond to the numbers of the elements in the system. The color of the field indicates:

orange – function controls this system element,

white – function does not control this system element.

Double-click on the field to change its color.

Depending on the selected function:

**Arming** – select the partitions to be armed and define the arming mode (successive clicks on the field). The digit inside the field indicates:

- 0 – fully armed,
- 1 – fully armed + bypasses,
- 2 – armed without interior,
- 3 – armed without interior and without entry delay.

**Disarming** – select the partitions to be disarmed.

**Alarm clearing** – select the partitions in which alarm is to be cleared.

**Bypass zones** – select the zones which are to be inhibited.

**Unbypass zones** – select the zones which are to be unbypassed.

**Outputs ON** – select the outputs to be activated.

**Outputs OFF** – select the outputs to be deactivated.

**Change outputs state** – select the outputs whose state is to be changed.



*The partitions must be controlled by user code.*

*The zones must not have the “Bypass disabled” option enabled.*

*The outputs must be the “24: MONO Switch”, “25: BI Switch”, “105: Shutter up”, “106: Shutter down” or “Remote switch” type (they do not need to be assigned to any group of outputs).*

**KNX telegram** – if you select this function, configure the following parameters of the KNX telegram:

**Module INT-KNX** – INT-KNX module to send the telegram.

**Group address** – group address that will be inserted in the telegram.

**Type** – telegram type.

**Value** – value that will be inserted in the telegram (parameter available for some types of the telegram).

**Priority** – telegram priority (if two elements of the bus start transmitting simultaneously, the telegram with higher priority will be sent first).

**KNX telegram (v2)** – if you select this function, configure the following parameters related to setting the value of the KNX communication object:

**Module INT-KNX** – INT-KNX-2 module in which the value is to be set.

**Macro Command** – name of the “Virtual (macro)” type object, defined in the INT-KNX-2 module.

**Data type** – size and meaning of the communication object data defined in INT-KNX-2 module for selected object.


**Value** – value to be set (if the type of data provides for sending a sequence of characters, you can enter up to 13 characters).

### Creating a macro command

1. Click on the “Read” button to read the macro command settings from the keypad.
2. Click on the “New macro” button. A new macro command will appear in the list.
3. Enter a name for the new macro command.
4. If the user is to run the macro command without entering the code, enter the user code. You can create an additional user whose code will be used for this purpose. The user



must be granted a suitable authority level in order to be able to run the functions that you want to assign to the macro command.

5. Specify if the widget displayed in the keypad is to show the state:
  - select the “No state indication” option if the widget is not to show the state,
  - select the “State follow input” or “State follow output” option if the widget is to show the state.
6. If you selected the “State follow input” / “State follow output” option, select the zone / output whose state is to control the widget icons.
7. Select the icon (if you select the “No state indication” option) / icons (if you selected the “State follow input” / “State follow output” option) that will be used to display the macro command on the screen.
8. Click  in the “Command” field and select from the list the function that will be executed by the new macro command.
9. Configure the command parameters (e.g. select the partitions to be armed).
10. Click on the “Add” button. A new command will appear in the list of commands assigned to the macro command. Click on the command whenever you want to make changes to its parameters. After making the changes, click on the “Change” button.
11. Repeat the steps 8-10 if you want the macro command to execute more functions.
12. Click on the “Write” button to write the macro command settings to the keypad.



*The user will be able to use the macro command if you add it to the user screen as a widget.*

## Screen

Go to this tab to create screens that will be used by the user for day to day operations of the alarm system by means of the keypad.



- click to add a user screen.



- click to delete the currently displayed user screen.



*To add an additional screen, first you need to add a link widget to the user screen.*

## Theme

A theme is a set of colors and background images to be used on the keypad screen.

**Selected theme** – name of the currently used theme.

**Font/icon color** – color used to display text and icons if an element is inactive.

**Font/icon highlight** – color used to display text and icons if an element is active.

**Background** – background color.


**Image** – name of the image used as background.


**Theme** – list of available themes. Click on a theme to select it and see the preview.


**Select** – click if you want the theme currently selected from the list of available themes to be used in the keypad.


## Custom theme

To create a custom theme, select “Custom” from the list of available themes in the “Theme” field.

**Font/icon color** – color used to display text and icons if an element is inactive. Click  to drop down the list of available colors, then click on the color that you want to use.

**Font/icon highlight** – color used to display text and icons if an element is active. Click  to drop down the list of available colors, then click on the color that you want to use.

**Background** – background color. Click  to drop down the list of available colors, then click on the color that you want to use.

**Image** – name of the image used as background. Click  to select an image from the list or add a new image. If you want to add a new image, click “From file...”, then indicate the JPG file. The program allows you to crop the added image to fit it to the keypad screen.



*If you add a new image, you must save it to the memory card that will be installed in the keypad (see “MicroSD card” p. 29).*

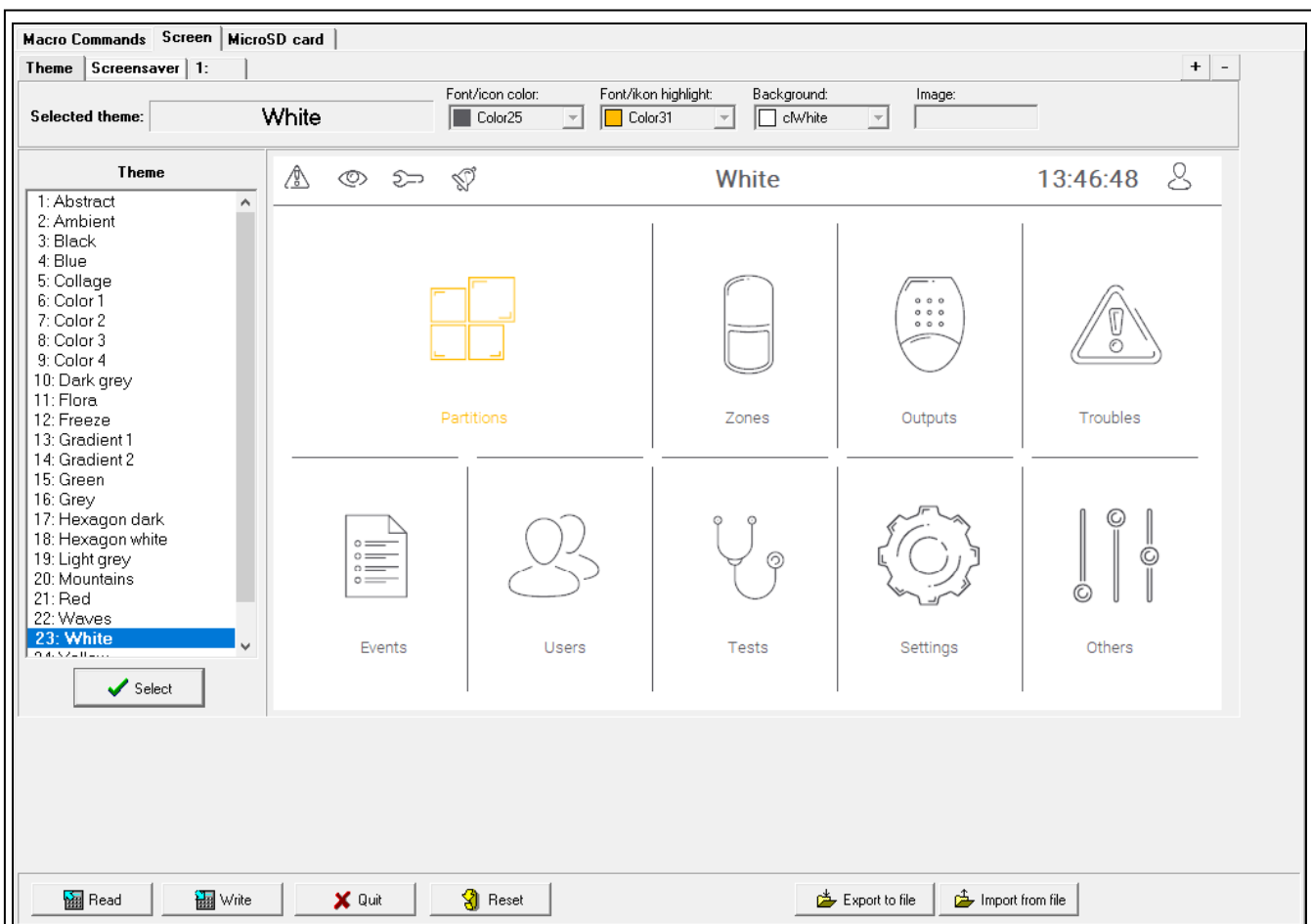


Fig. 15. DLOADX program: “Theme” tab (default settings).

### Screensaver / User screen / Additional screen

The screensaver can be displayed when the keypad is unused. It can display information about the alarm system status but it does not allow the user to operate the system. The user screens and the additional screens allow the user to operate the alarm system and control the automation equipment. They can also display information about the system status. To add an additional screen, first you will need to add a link widget to the user screen (the user will be able to go to the user screen by tapping the widget). The user screens can have two different background images (including the screensaver background image). The additional screens, however, can each have a different background image. For this reason, the additional screens may be used to display site plans (prepare an image file



containing a site plan and use it as background, then add to it widgets that will indicate the state of system elements: partitions, zones or outputs).

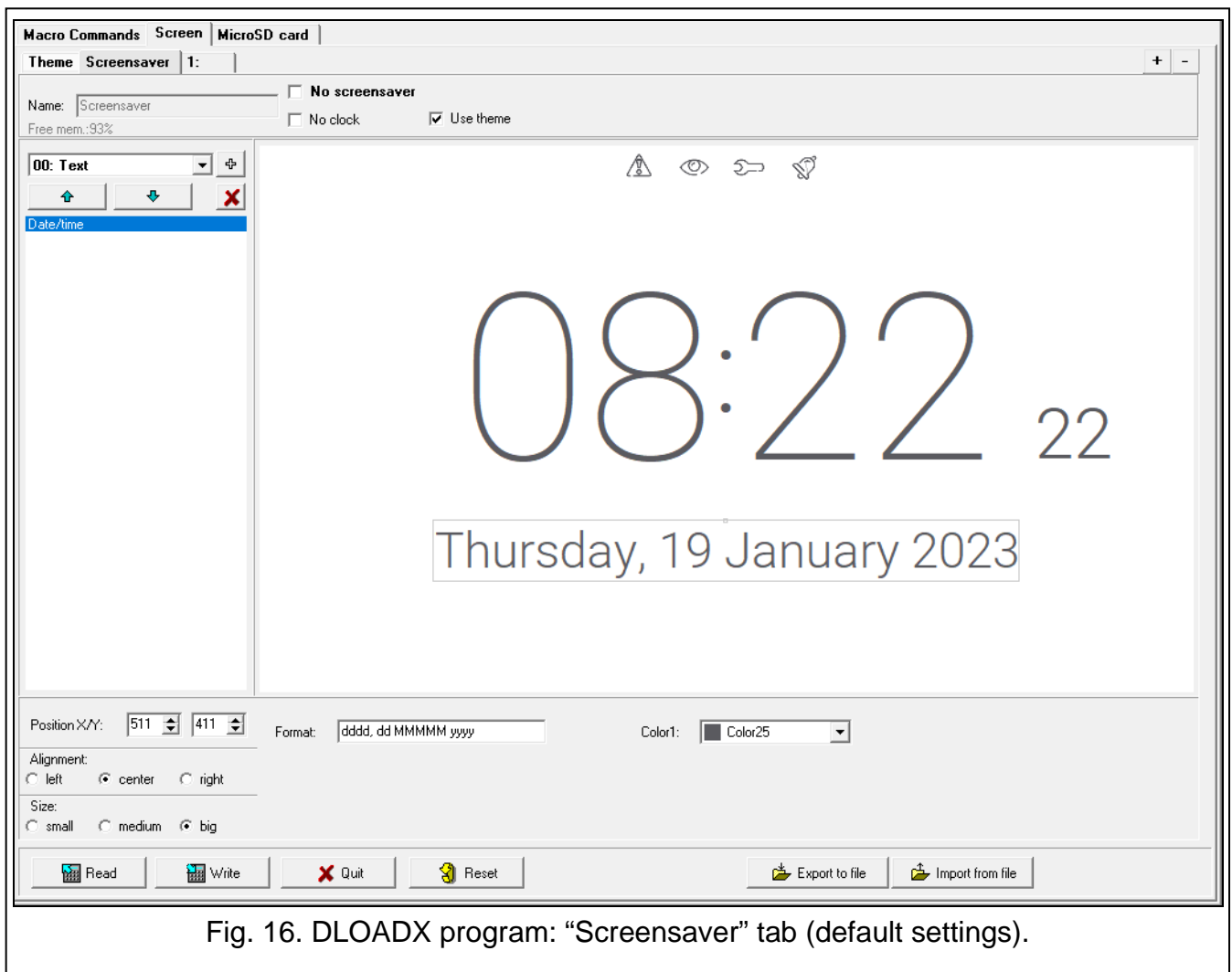


Fig. 16. DLOADX program: “Screensaver” tab (default settings).

**Name** – screen name. If entered, it will be displayed on the screen status bar. This field is not available for screensaver.

**No screensaver** – if this option is enabled, the screensaver is disabled (it is not displayed). This option is available only for the screensaver.



*If the screensaver is disabled, the slideshow is not available.*


**No clock** – if this option is enabled, the default clock is not displayed on the screensaver. This option is available only for the screensaver.


**Home screen** – if this option is enabled, the user screen is selected as the home screen, i.e. one that is displayed first. This option is available only for user screen. It can be enabled for one user screen only.


**Show grid** – if this option is enabled, grid is displayed on the screen. This option is available only for user screen.

**Available after logging in** – if this option is enabled, the user will have to enter code to access the screen. This option is available for user screen and additional screen.

**Use theme** – if this option is enabled, the theme selected in the “Theme” tab is used. If this option is disabled, you can select the colors and background image for the screensaver / screen.

**Font/icon color** – color used to display text and icons if an element is inactive. Click  to drop down the list of available colors, then click on the color that you want to use. This field is displayed if the “Use theme” option is disabled.

**Font/icon highlight** – color used to display text and icons if an element is active. Click  to drop down the list of available colors, then click on the color that you want to use. This field is displayed if the “Use theme” option is disabled.

**Background** – background color. Click  to drop down the list of available colors, then click on the color that you want to use. This field is displayed if the “Use theme” option is disabled.

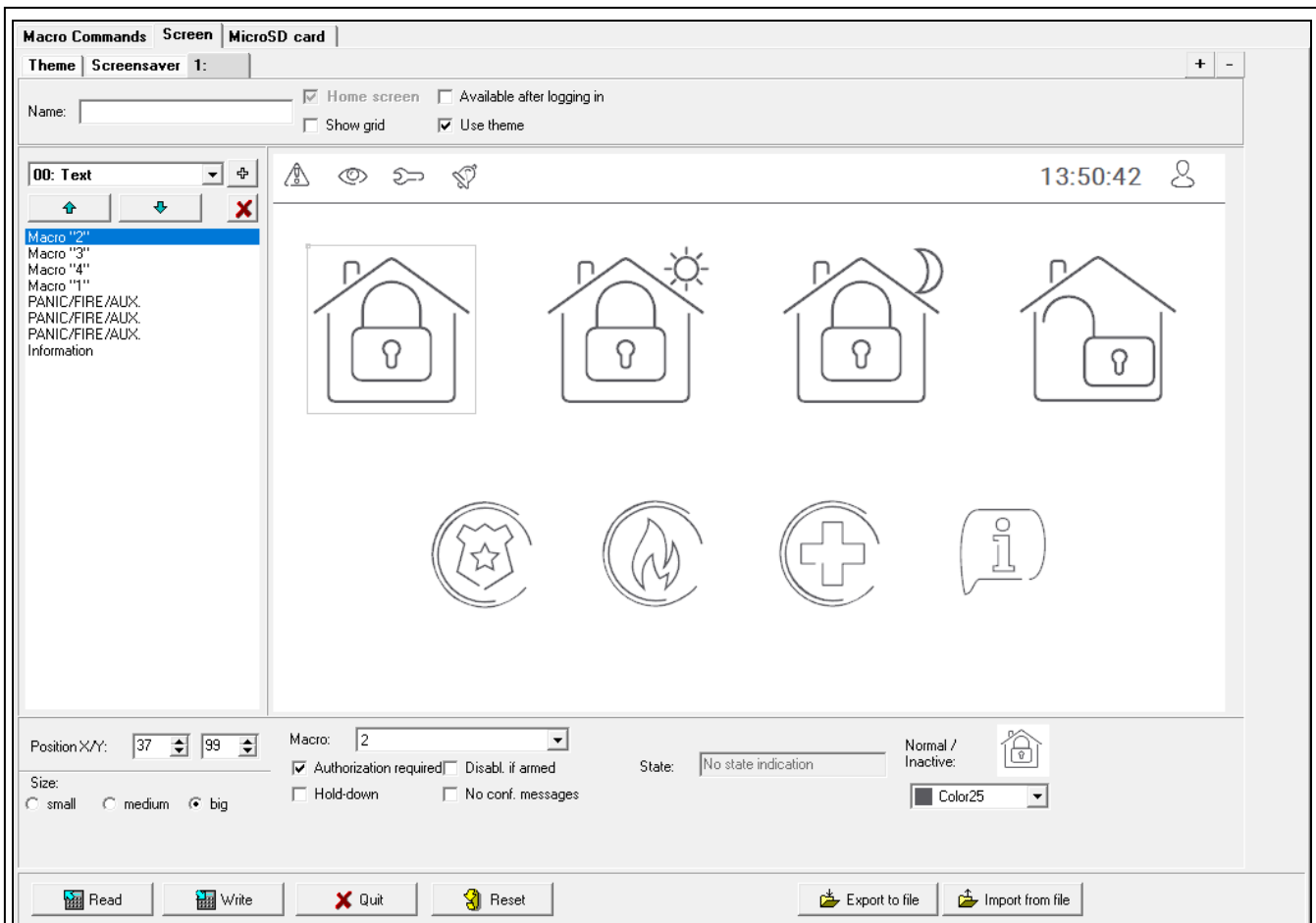





Fig. 17. DLOADX program: tab for user screen (default settings).

**Image** – name of the image used as background. Click  to select an image from the list or add a new image. If you want to add a new image, click “From file...”, then indicate the JPG file. The program allows you to crop the added image to fit it to the keypad screen. This field is displayed if the “Use theme” option is disabled.



*If you add a new image, you must save it to the memory card that will be installed in the keypad (see “MicroSD card” p. 29).*

*For screensaver and user screens, you can use the background image defined in the theme or, if you disable the “Use theme” option, an image selected by you. Only one additional image can be selected. If you select it for the screensaver, you will not be able to select another image for the user screens. The selection list available after you click  will consist of only one selectable item (if you previously selected an image from a file, this item will be named “Custom”).*

**[Widget]** – widget that you can add to the screen. Click  to drop down the list of available widgets, then select the widget that you want to add.

**Text** – widget displays a text that you entered or the name of a system element.

**Partition state** – widget shows the partition state.

**Zone state** – widget shows the zone state.

**Output state** – widget shows the output state.

**Temperature** – widget displays temperature. Information about temperature is obtained from an ABAX 2 / ABAX wireless device.

**Date/time** – widget displays date and time.

**Switch** – widget used to turn on / off an output.

**Rectangle** – widget displays a rectangle on the screen.

**Macro** – widget used to run a macro command.

**PANIC/FIRE/AUX.** – widget used to trigger a panic / fire / medical alarm.


**Information** – widget used to display a message that you entered.


**Link** – widget allows the user to go to additional screen / return to user screen.


**Button** – widget used to temporarily activate an output. The output is activated when the user taps the widget. The output remains active as long as the user holds the widget. When the widget is released, the output returns to normal state.

**Analog value** – widget displays information on the power consumption of the appliance connected to the ASW-200 smart plug.

**Thermostat** – widget is used to adjust the temperature settings for the thermostatic output.

 - click to add the widget selected in the field on the left. It will be placed on the preview screen on the right.

 - click to move the widget up on the list.


 - click to move the widget down on the list.

 - click to delete the widget.

**[Preview]** – preview shows what the user will see on the keypad screen. Use the “drag and drop” method to move widgets around the screen. Alternatively, you can use the arrow keys to move a selected widget.

### “Text” widget settings

**Position X/Y** – position of the widget on the screen.

**Type** – type of information displayed by the widget. Click  to select:

**Text** – widget displays a text that you entered.

**This keypad name** – widget displays the keypad name.

**Part. name** – widget displays the partition name.

**Zone name** – widget displays the zone name.


**Output name** – widget displays the output name.


**Module name** – widget displays the expansion module name.


**Keypad name** – widget displays the keypad name.


**Timer name** – widget displays the timer name.


**Text** – text to be displayed by the widget. This field is available if you selected the “Text” type.

**Part. name** – partition whose name is displayed by the widget. Click  to select a partition. This field is available if you selected the “Part. name” type.

**Zone name** – zone whose name is displayed by the widget. Click  to select a zone. This field is available if you selected the “Zone name” type.

**Output name** – output whose name is displayed by the widget. Click  to select an output. This field is available if you selected the “Output name” type.

**Module name** – module whose name is displayed by the widget. Click  to select a module. This field is available if you selected the “Module name” type.

**Keypad name** – keypad whose name is displayed by the widget. Click  to select a keypad. This field is available if you selected the “Keypad name” type.


**Timer name** – timer whose name is displayed by the widget. Click  to select a timer. This field is available if you selected the “Timer name” type.

**Color1** – color of the widget. Click  to select a color.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Partition state” widget settings


**Position X/Y** – position of the widget on the screen.

**Partition** – partition whose state is presented by the widget. Click  to select a partition.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Zone state” widget settings


**Position X/Y** – position of the widget on the screen.

**Type** – the way the zone state is presented. Click  to select:

**Indicator** – zone state is presented by icons selected by SATEL. The widget will display different states.


**Text** – zone state is presented by text messages. You can enter messages of your choice. The widget will only display normal state and violation.

**Icon** – zone state is presented by icons. You can select icons of your choice. The widget will only display normal state and violation.

**Zone** – zone whose state is presented by the widget. Click  to select a zone.

**Normal state** – text / icon displayed when the zone is in normal state. This field is available if you selected the “Text” / “Icon” type.

**Violation** – text / icon displayed when the zone is violated. This field is available if you selected the “Text” / “Icon” type.

**Color1** – color of the widget when zone is in normal state. Click  to select a color.


**Color2** – color of the widget when zone is violated. Click  to select a color.

**Alignment** – text alignment. The text can be left-aligned, centered or right-aligned. This parameter is available if you selected the “Text” type.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Output state” widget settings


**Position X/Y** – position of the widget on the screen.

**Type** – the way the output state is presented. Click  to select:

**Indicator** – output state is presented by icons selected by SATEL.

**Text** – output state is presented by text messages. You can enter messages of your choice.

**Icon** – output state is presented by icons. You can select icons of your choice.

**Output** – output whose state is presented by the widget. Click  to select an output.

**Off** – text / icon displayed when the output is turned off. This field is available if you selected the “Text” / “Icon” type.

**Active** – text / icon displayed when the output is turned on. This field is available if you selected the “Text” / “Icon” type.

**Color1** – color of the widget when the output is turned off. Click  to select a color.


**Color2** – color of the widget when the output is turned on. Click  to select a color.

**Alignment** – text alignment. The text can be left-aligned, centered or right-aligned. This parameter is available if you selected the “Text” type.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Temperature” widget settings

**Position X/Y** – position of the widget on the screen.

**Zone** – zone to which the ABAX 2 / ABAX wireless device providing temperature information is assigned. Click  to select a zone.

**°C** – if you select this option, temperatures will be expressed in degrees Celsius.

**°F** – if you select this option, temperatures will be expressed in degrees Fahrenheit.

**Color1** – color of the widget. Click  to select a color.

**Alignment** – text alignment. The text can be left-aligned, centered or right-aligned.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Date/time” widget settings

**Position X/Y** – position of the widget on the screen.

**Format** – the way that date and time is displayed. Use the following characters to define the date and time format (the number of letters affects what information is displayed):

**d** – day/date (1 to 6 letters),

**M** – month (1 to 4 letters),

**y** – year (1 to 3 letters),

**s** – seconds (1 to 2 letters),

**m** – minutes (1 to 2 letters),

**h** – hour (1 to 2 letters),

**t** – time (1 to 2 letters),

**c** – date and time.


**Color1** – color of the widget. Click  to select a color.


**Size** – size of the widget on the screen. Select one of three available sizes.


**Alignment** – text alignment. The text can be left-aligned, centered or right-aligned.

#### “Switch” widget settings

**Position X/Y** – position of the widget on the screen.

**Control output** – output controlled by the widget. Click  to select an output (select a controllable output).

**Off** – icon displayed when the output is turned off. Click  to select a pictogram.

**Active** – icon displayed when the output is turned on. Click  to select a pictogram.

**Color1** – color of the widget when the output is turned off. Click  to select a color.

**Color2** – color of the widget when the output is turned on. Click  to select a color.


**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Rectangle” widget settings

**Position X/Y** – position of the widget on the screen.

**Transparency** – scale to determine the degree of transparency of the rectangle.

**Color** – fill color of the rectangle. Click  to select a color.


**Frame color** – color of the frame around the rectangle. Click  to select a color.

**Thickness** – thickness of the frame around the rectangle.

**Size W/H** – rectangle size in pixels (width / height).

#### “Macro” widget settings

**Position X/Y** – position of the widget on the screen.

**Macro** – macro command run by the widget. Click  to select a macro command (you need to create the macro command first – see “Macro Commands” p. 18).

**Authorization required** – if this option is enabled, the macro command is executed only after the user enters the code.

**Disabl. if armed** – if this option is enabled, the macro command is not available if any of the partitions supported by the keypad is armed.

**Hold-down** – if this option is enabled, the user is to tap and hold the widget for 3 seconds to run the macro command.

**No conf. messages** – if this option is enabled, no message is displayed to inform the user about execution of a command or an error after running a macro command.

**State** – information about the “State” parameter setting in the “Macro Commands” tab.

**Zone** – information about the “Zone” parameter setting in the “Macro Commands” tab.

**Output** – information about the “Output” parameter setting in the “Macro Commands” tab.

**Normal / Inactive** – pictogram selected for the macro command in the “Macro Commands” tab (fields “Icon” or “Off”). You can select its color in the field below.

**Active** – pictogram selected for the macro command in the “Macro Commands” tab (field “Active”). You can select its color in the field below.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “PANIC/FIRE/AUX.” widget settings

**Position X/Y** – position of the widget on the screen.

**Type** – type of alarm that will be triggered when the widget is run (“PANIC alarm” / “FIRE alarm” / “MEDICAL alarm”). Click  to select a type.

**Color1** – color of the widget. Click  to select a color.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Information” widget settings


**Position X/Y** – position of the widget on the screen.

**Message** – message that will be displayed when the widget is run.

**Size** – size of the widget on the screen. Select one of three available sizes.

#### “Link” widget settings


**Position X/Y** – position of the widget on the screen.


**Link** – response to tapping on the widget. Click  to select:

**Return** – user screen will be displayed.

**[name of additional screen]** – selected additional screen will be displayed.

**New additional screen** – click to add an additional screen.

**Icon** – pictogram used to display the link on the screen. Click  to select a pictogram.


**Color1** – color of the widget when inactive. Click  to select a color.

**Color2** – color of the widget when active. Click  to select a color.

**Size** – size of the widget on the screen. Select one of three available sizes.


### “Button” widget settings


**Position X/Y** – position of the widget on the screen.

**Control output** – output controlled by the widget. Click  to select an output (select a controllable output).



*The „Remote switch” type output (INTEGRA series control panels) should have the cut-off time programmed to 0.*

**Off** – icon displayed when the output is turned off. Click  to select a pictogram.

**Active** – icon displayed when the output is turned on. Click  to select a pictogram.


**Color1** – color of the widget when the output is turned off. Click  to select a color.

**Color2** – color of the widget when the output is turned on. Click  to select a color.

**Size** – size of the widget on the screen. Select one of three available sizes.

### “Analog value” widget settings

**Position X/Y** – position of the widget on the screen.

**Output** – output to which the ASW-200 smart plug is assigned. The widget displays information on the power consumption of the appliance connected to the ASW-200 smart plug. Click  to select an output.

**Text** – value details (e.g. unit of measure). It is displayed after the value (on the right).


**Color1** – color of the widget. Click  to select a color.

**Alignment** – text alignment. The text can be left-aligned, centered or right-aligned.


**Size** – size of the widget on the screen. Select one of three available sizes.

### “Thermostat” widget settings

**Position X/Y** – position of the widget on the screen.

**Thermostat output** – “120. Thermostat” type output whose settings can be adjusted when the user taps the widget. Click  to select an output.

**Color1** – color of the widget when the output is turned off. Click  to select a color.

**Color2** – color of the widget when the output is turned on. Click  to select a color.

**Size** – size of the widget on the screen. Select one of three available sizes.

## **MicroSD card**

Go to this tab to prepare additional images or sounds and save them to the memory card.

**Save to SD card** – click to save the prepared image or audio files to the memory card.



### Images/backgrounds

Go to this tab to view the background images that you added from a file while creating screens in the “Screen” tab. This tab is available if any of the screens uses a background image added by you from a file.

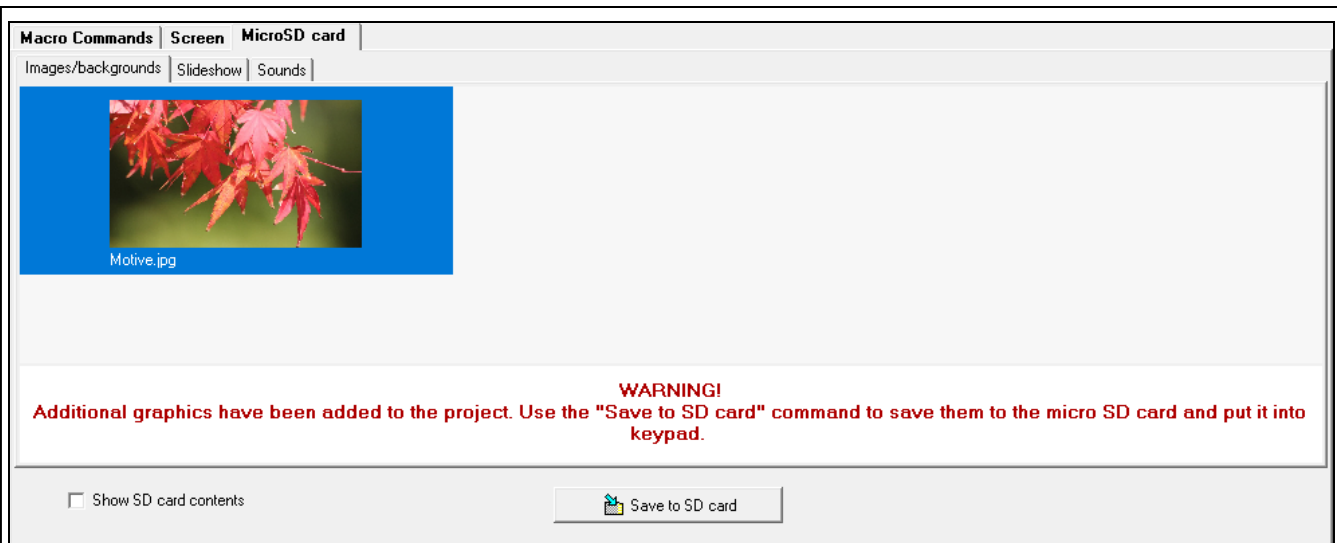


Fig. 18. DLOADX program: “Images/backgrounds” tab (example).

### Slideshow

Go to this tab to create a set of images for a slideshow in the keypad.

**Add** – click to add a new image to the slideshow.

**Delete** – click to delete a selected image from the slideshow.

**Clear** – click to delete all images.

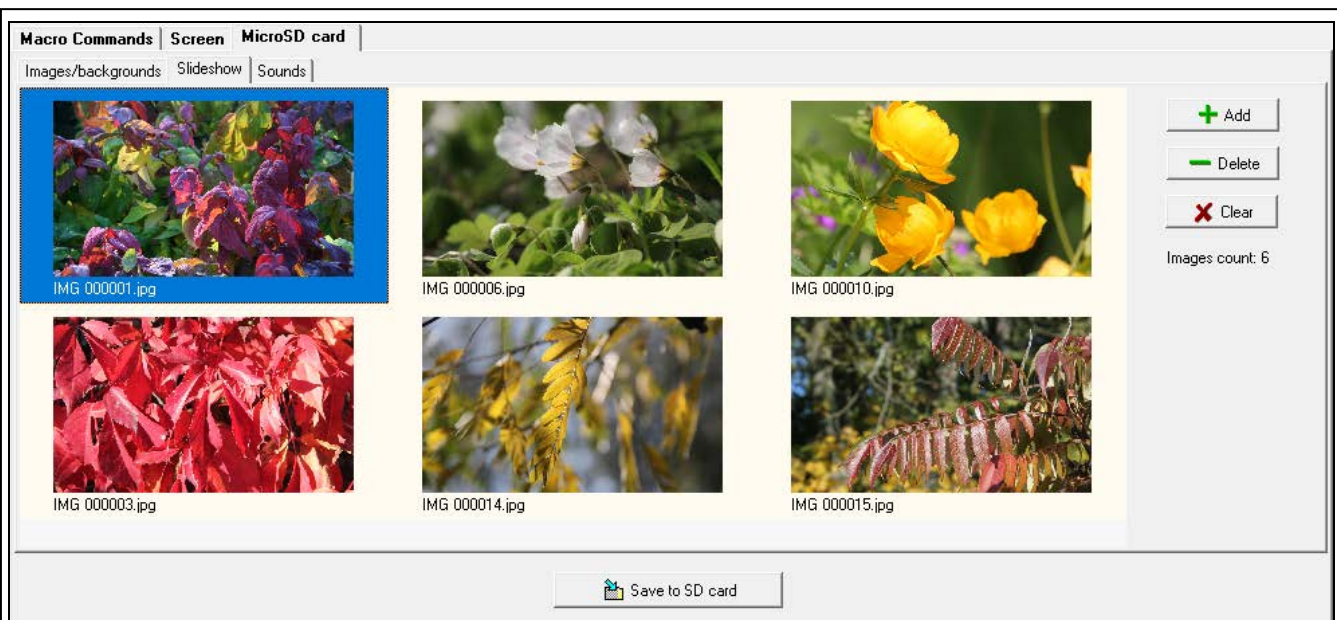


Fig. 19. DLOADX program: “Slideshow” tab (example).

### Sounds

Go to this tab to prepare additional sounds to be used for the CHIME signaling.



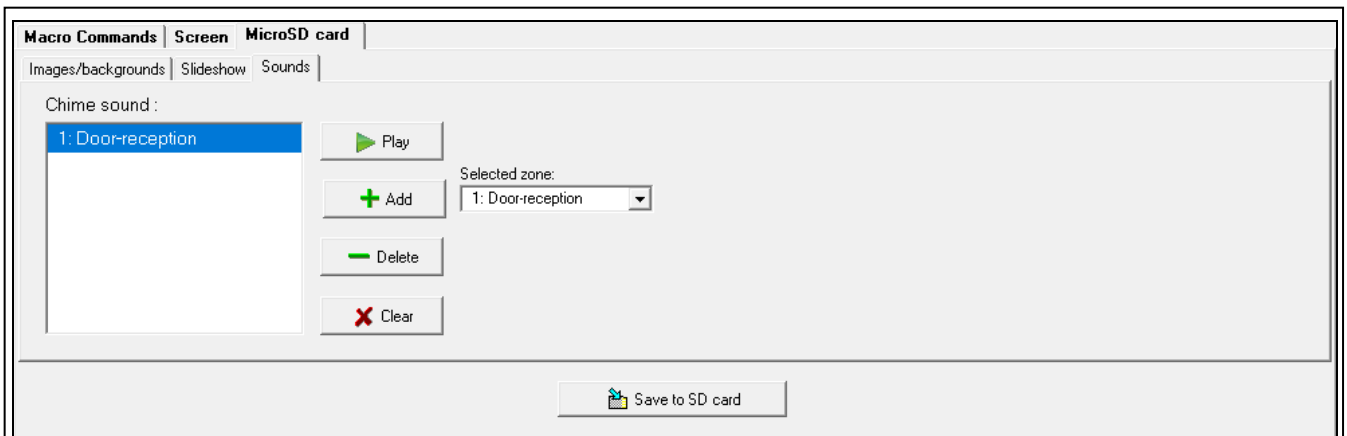


Fig. 20. DLOADX program: "Sounds" tab (example).

**Chime sound** – list of additional sounds. The sounds are named after the zones they are assigned to. The sounds will be played back as CHIME signals when their corresponding zones are violated.

**Play** – click to play a sound.

**Add** – click to add a new sound (first, select a zone in the "Selected zone" field).

**Selected zone** – zone which the added sound will be assigned to. Click to select a zone.

**Delete** – click to delete a selected sound.

**Clear** – click to delete all sounds.

### **EOL resistance value**

Go to this tab to program the EOL resistance value if the keypad is connected to the INTEGRA control panel.



*In the INTEGRA Plus control panel, you can define the EOL resistance value for the mainboard zones. The same resistors must be used for all zones for which the EOL resistance value is programmable (including the keypad zones).*

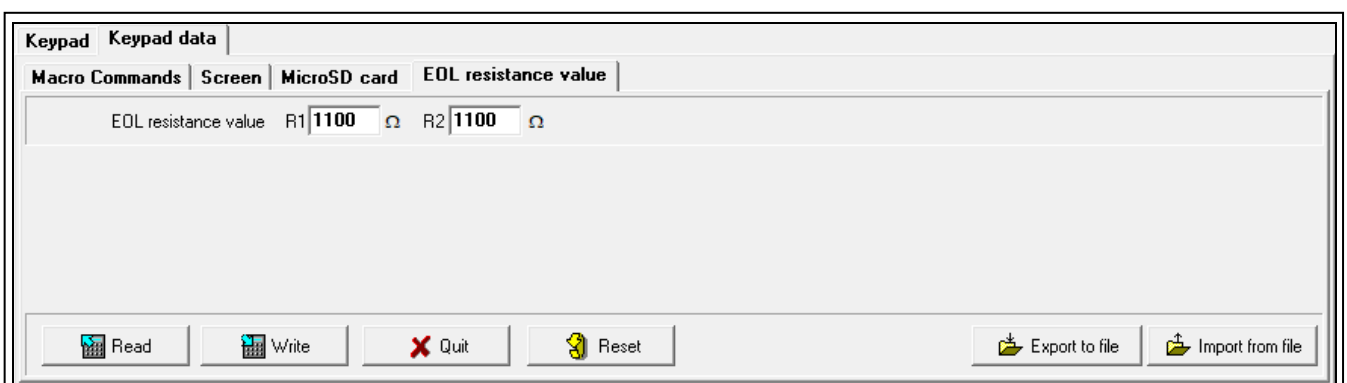


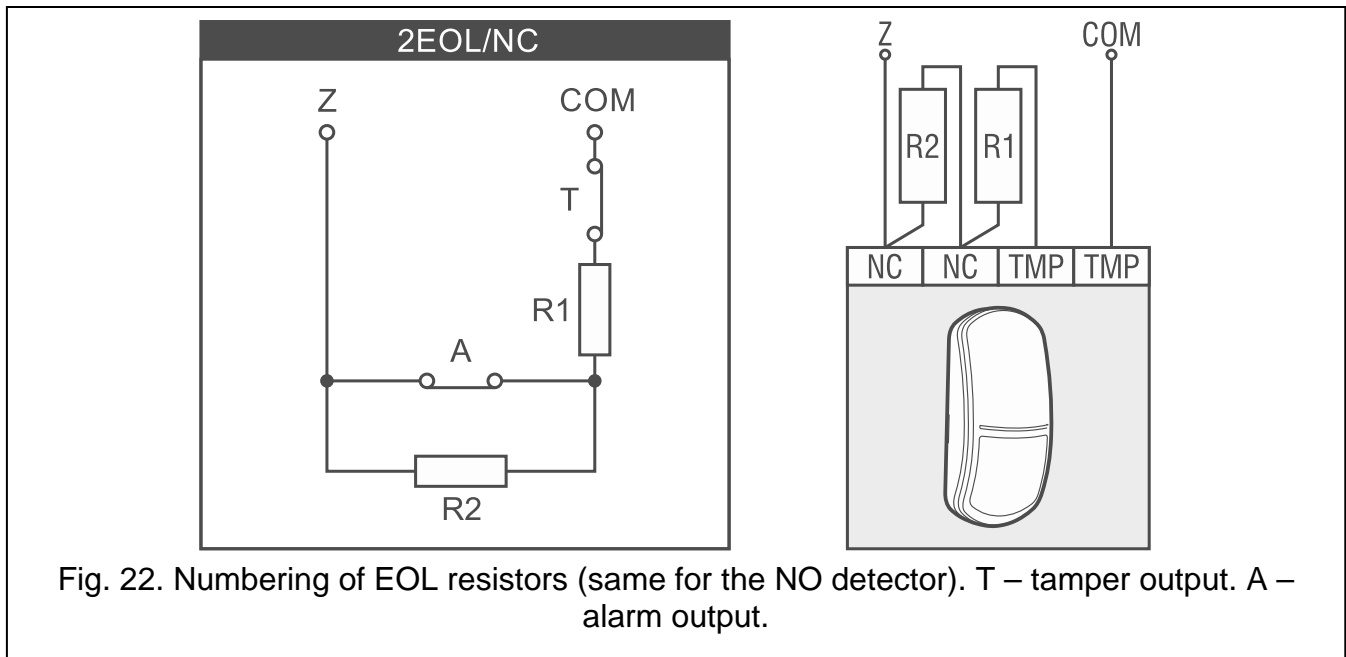
Fig. 21. DLOADX program: "EOL resistance value" tab (default settings).

**R1** – value of the R1 resistor (see Fig. 22). You can enter values from 500  $\Omega$  to 15 k $\Omega$ . By default: 1.1 k $\Omega$ .

**R2** – value of the R2 resistor (see Fig. 22). You can enter values from 500  $\Omega$  to 15 k $\Omega$  or 0. If you enter 0, the value of resistors used in the Double EOL configuration must be equal to half the value programmed for the R1 resistor (the value of one resistor must not be less than 500  $\Omega$ ). By default: 1.1 k $\Omega$ .



*The resistor value for Single EOL configuration is the sum of R1 and R2 resistors.*



## 6.2 Keypad in the VERSA system

To configure the keypad settings you can use:

- DLOADX program: →"VERSA – Structure" window →"Hardware" tab →"Expansion modules" branch →[keypad name] (Fig. 23). Required program version: 1.21.000 (or newer).
- LCD keypad: ►"Service mode" ►"2. Hardware" ►"1. Kpds. & exps." ►"2. Settings" ►[keypad name].



Only the DLOADX program allows you to configure all settings.

### 6.2.1 Setting description

Shown in square brackets are the names of parameters and options displayed in the keypad.

#### INT-TSH2

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

**Tamper signaled in part.** [Tamper in part.] – partition where tamper alarm will be triggered in the event of opening the keypad tamper switch or keypad absence.

**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.

#### Options

**Sign. entry delay** [Entry time sign.] – if this option is enabled, the keypad will audibly signal the entry delay countdown.

**Sign. exit delay** [Exit time sign.] – if this option is enabled, the keypad will audibly signal the exit delay countdown.

**Sign. alarms** – if this option is enabled, the keypad will signal the alarms audibly.

**Quick arming – Partition 1** – if this option is enabled, partition 1 can be armed without entering the code.

**Quick arming – Partition 2** – if this option is enabled, partition 2 can be armed without entering the code.

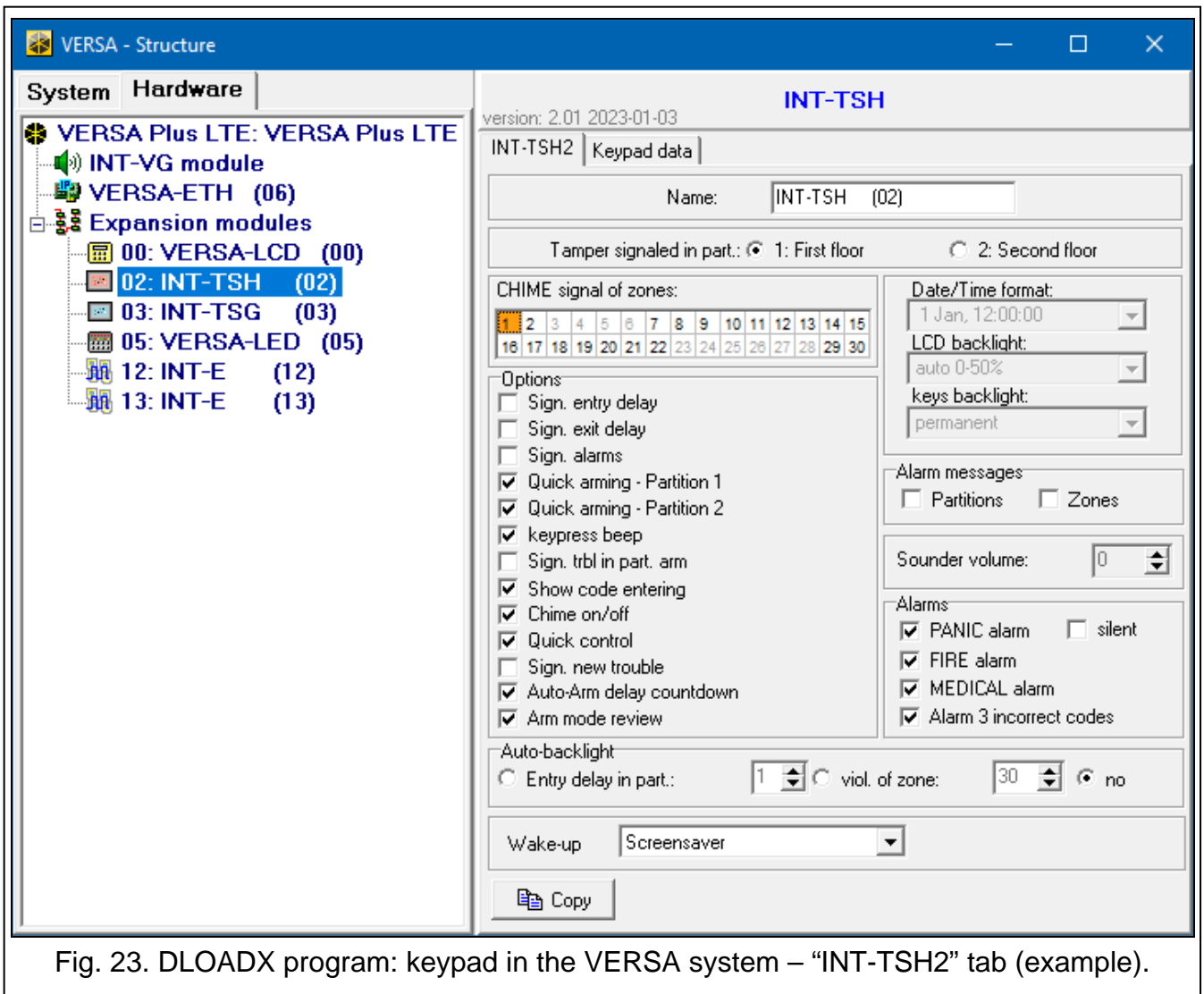


Fig. 23. DLOADX program: keypad in the VERSA system – “INT-TSH2” tab (example).

**Keypress beep** [Key sounds] – if this option is enabled, tapping the screen is confirmed by a sound.

**Sign. trbl in part. arm** [Trbl.in part.arm] – if this option is enabled, the trouble information on the status bar will be hidden after both partitions are fully armed (if the option is disabled, the trouble information will be hidden 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 turned on / off by using the



key on the terminal (tap and hold for 3 seconds).


**Quick control** – if this option is enabled, the user can control the outputs without entering the code:

- using widgets,
- using the number keys on terminal. When programming the control panel, assign the “15. Controlled” type outputs to the keys (see the control panel programming manual).

**Sign. new trouble** – if this option is enabled, the keypad will audibly signal the occurrence of any new trouble (additionally, the “Trouble memory until review” option must be enabled in the control panel – see: control panel programming manual). The signaling will be turned off after reviewing the trouble with the “7. System state” user function.

**Auto-Arm delay countdown** [Autoarm signal.] – if this option is enabled, the auto-arm delay countdown is signaled acoustically.

**Arm mode review** [Arm mode check.] – if this option is enabled, tap and hold for 3 seconds

the  key to display information about the partition state. This function is not available when the “Grade 2” option is 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.

## Alarms

**PANIC alarm** – if this option is enabled, you can trigger a panic alarm from the keypad by using a widget.

**silent** [Silent panic] – if this option is enabled, the panic alarm triggered from the keypad will be a silent one, i.e. the keypad will not indicate it, there will be no audible signal, but the alarm will be reported to the monitoring station. The silent panic alarm is useful when the control panel is sending events to the monitoring station, but unauthorized persons should not be aware of the alarm being triggered. This option is available when the “PANIC alarm” option is enabled.

**FIRE alarm** – if this option is enabled, you can trigger a fire alarm from the keypad by using a widget.

**MEDICAL alarm** – if this option is enabled, you can trigger a medical alarm from the keypad by using a widget.

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

## Auto-backlight

**Entry delay in part.** – if you select this option, the keypad will be woken up when the entry delay countdown begins in a selected partition.

**viol. of zone** – if you select this option, the keypad will be woken up when a selected zone is violated.

**no** – if you select this option, the keypad will be woken up only when the user taps the screen.

**Wake-up** – the way the keypad will respond to the wake-up (after a tap on the screen by the user or occurrence of a specified event in the system):

**Screensaver** – screensaver will be displayed.

**User screen** – user home screen will be displayed.



*If you disable the screensaver (see option “No screensaver” p. 23), the user home screen will always be displayed after wake-up.*

## Keypad data

Go to this tab to configure the settings that are stored in the keypad. These settings can only be configured in the DLOADX program.

The buttons located on the bottom of the window apply to all settings that are stored in the keypad.

**Read** – click to read data from the keypad.

**Write** – click to write data to the keypad.



**Quit** – click to cancel the reading / writing of data.

**Reset** – click to restore the factory default settings of the keypad (this command applies to the settings presented in the “Keypad data” tab).

**Export to file** – click to export the keypad data to a file.

**Import from file** – click to import the keypad data from a file.



*Before you make any changes, click on the “Read” button, and after you make the changes, click on the “Write” button. The settings stored in the keypad are not read / written after you click on  /  in the main menu.*

## Macro Commands

A macro command is a sequence of actions to be performed by the control panel. Configure a macro command and add it to the user screen as a widget. This will help the user to operate the alarm system. Instead of performing several operations (e.g. in order to arm selected partitions in different modes), the user can tap a widget to run a macro command, and the control panel will execute the functions assigned to the macro command.

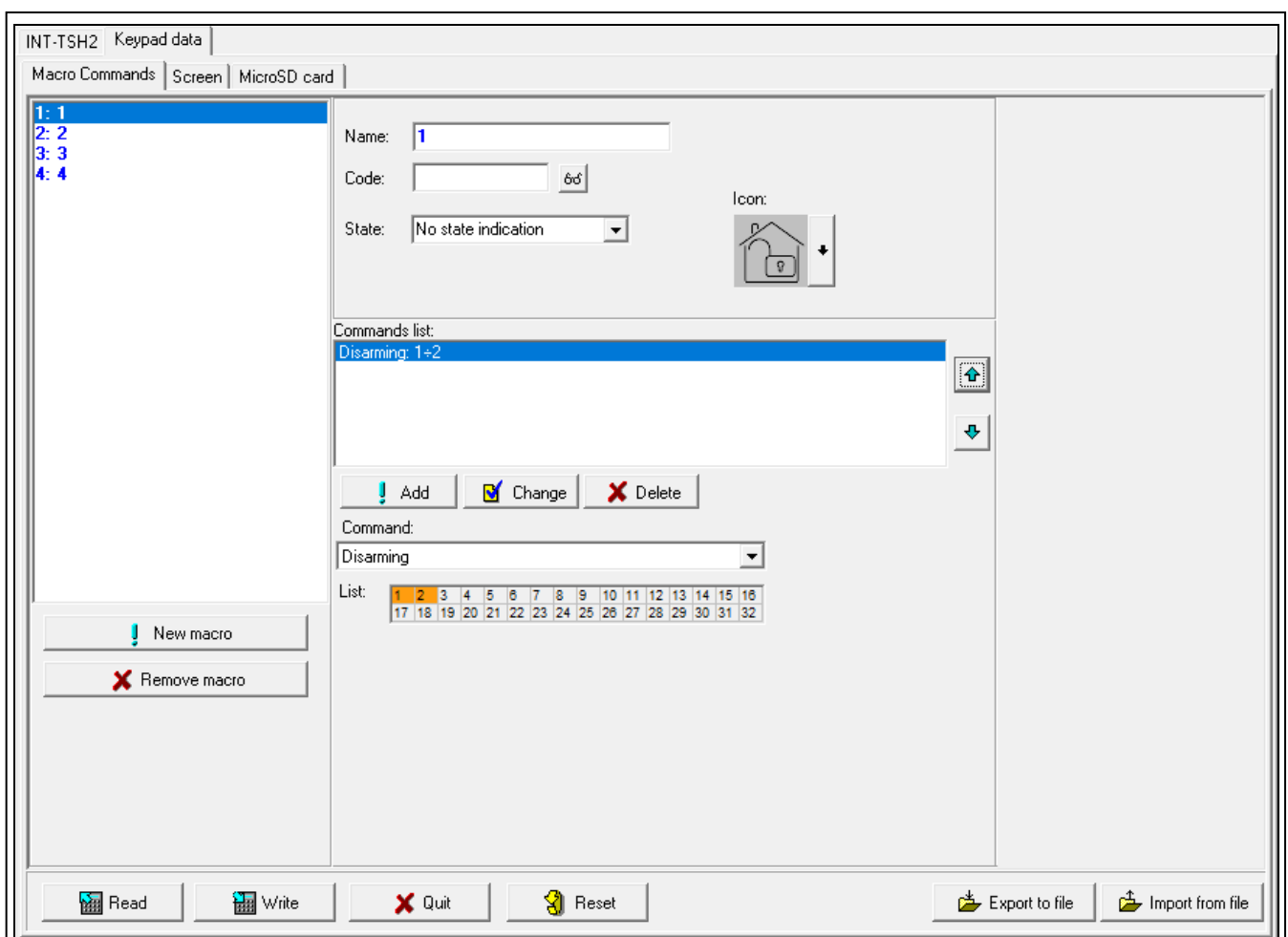



Fig. 24. DLOADX program: keypad in the VERSA system – “Macro Commands” tab (default settings).

**New macro** – click to create a new macro command.

**Remove macro** – click to delete a selected macro command.

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

**Code** – code to be used when executing commands contained in the macro command. For execution of such commands to be possible, the code must be granted a suitable authority level. Click  to view the code.



*If, when running a macro command, it turns out that the code is invalid (e.g. it has been changed in the meantime), the user will be able to enter the correct code. It will be automatically saved to the keypad memory (replacing the invalid one).*

**State** – widget can inform the user by means of icons about the state of selected alarm system elements (e.g. partition armed by a macro command or output controlled by using a macro command).


**No state indication** – if you select this option, the widget will not indicate the state (only one icon will be used).


**State follow input** – if you select this option, the widget will indicate the state based on the zone state (two icons will be used).


**State follow output** – if you select this option, the widget will indicate the state based on the output state (two icons will be used).



**Zone** – widget indicates the state of this zone if you selected the “State follow input” option. Select the zone whose state will be affected by the macro command (e.g. zone that supervises the operation of a device turned on / off by a macro command).

**Output** – widget indicates the state of this output if you selected the “State follow output” option. Select the output whose state will be affected by the macro command (e.g. the “18: Armed status” type output which turns on after partition is armed).

**Icon** – pictogram used to represent a macro command on the screen. Click  to select a pictogram.

**Off** – pictogram used to represent a macro command on the screen when the widget indicates the inactive state. Click  to select a pictogram.


**Active** – pictogram used to represent a macro command on the screen when the widget indicates the active state. Click  to select a pictogram.

**Commands list** – commands assigned to the currently highlighted macro command. The  and  buttons allow you to change the order of commands (moving the selected command up and down).

**Add** – click to add to the list a new command selected in the “Command” field.

**Change** – click to save the changes to the command settings that were made after adding the command to the list (otherwise, the changes will not be saved).

**Delete** – click to remove the highlighted command from the list.

**Command** – function that you can assign to the macro command. Click  to drop down the list of available functions, then click on the function that you want to assign to the macro command.

**Partition 1 / Partition 2** – function run in the partition if the “Arming” command is selected:

**none** – no function,

**Full arm** – arming in full mode,

**Night arm** – arming in night mode,

**Day arm** – arming in day mode.

**no exit delay** – if this option is enabled, the partition will be armed instantly (the exit delay countdown will not run),

**no exit and entry delay** – if this option is enabled, the partition will be armed instantly (the exit delay countdown will not run) and the delayed zones will act as instant (without any entry delay time).

**List** – fields in this table represent the system elements (partitions / zones / outputs) that can be controlled by the function. The numbers of the fields in the table correspond to the numbers of the elements in the system. The color of the field indicates:

orange – function controls this system element,

white – function does not control this system element.

Double-click on the field to change its color.

Depending on the selected function:

**Disarming** – select the partitions to be disarmed.

**Alarm clearing** – select the partitions in which alarm is to be cleared.

**Bypass zones** – select the zones which are to be inhibited.

**Unbypass zones** – select the zones which are to be unbypassed.

**Outputs ON** – select the outputs which are to be activated.

**Outputs OFF** – select the outputs which are to be deactivated.

**Change outputs state** – select the outputs whose state is to be changed.



*The zones must not have the “Bypass disabled” option enabled.*

*The outputs must be the “15: Controlled” type.*

### **Creating a macro command**

Create a macro command in the same way as in the keypad in the INTEGRA system (see p. 20).

### **Screen**

Go to this tab to create screens that will be used by the user for day to day operations of the alarm system by means of the keypad. Do it in the same way as in the keypad in the INTEGRA system (see p. 21 and the following).



*The “Temperature” and “Thermostat” widgets are not available in the VERSA alarm system.*

### **MicroSD card**

Go to this tab to prepare additional images or sounds and save them to the memory card. Do it in the same way as in the keypad in the INTEGRA system (see p. 29 and the following).



## 7. Updating the keypad firmware



*The keypad cannot be used during the firmware update.*

*Start the service mode before you open the keypad enclosure to remove / insert the memory card (see “Starting the service mode in the INTEGRA system” p. 6 or “Starting the service mode in the VERSA system” p. 9). The alarm system must be in the service mode during the firmware update.*

1. Download the new keypad firmware version from [www.satel.eu](http://www.satel.eu).
2. Save the new firmware version to the memory card.
3. Open the keypad enclosure and insert the card into the slot.
4. Use the function or restart the keypad to update the firmware.

### 7.1 Update using the function

#### 7.1.1 Keypad in the INTEGRA system

1. Run the “Hide SM now” function (►”SM settings” ►”Hide SM now”). Depending on the „No screensaver” option setting (see: p. 23):
  - option disabled: screensaver will be displayed – go to point 2,
  - option enabled: user screen will be displayed – go to point 3.
2. Tap the keypad screen. The user screen will be displayed.
3. Swipe the screen up. The on-screen keypad will be displayed.
4. Enter the service code and tap . The user menu home screen will be displayed.
5. Tap the “Settings” function. The “Settings” screen will be displayed (Fig. 25).

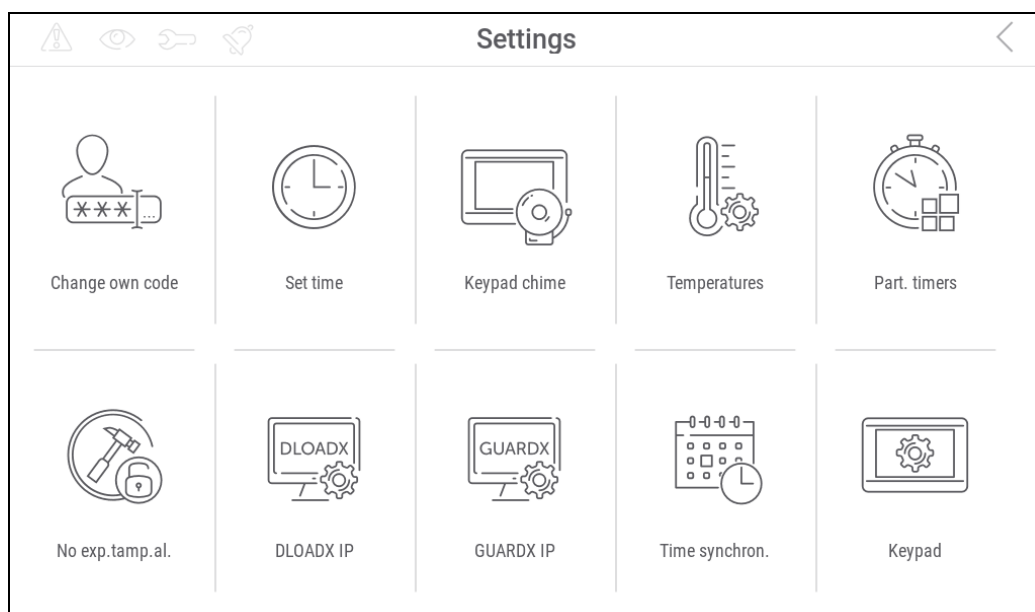


Fig. 25. “Settings” screen (example).

6. Tap the “Keypad” function. The “Keypad” screen will be displayed (Fig. 26).



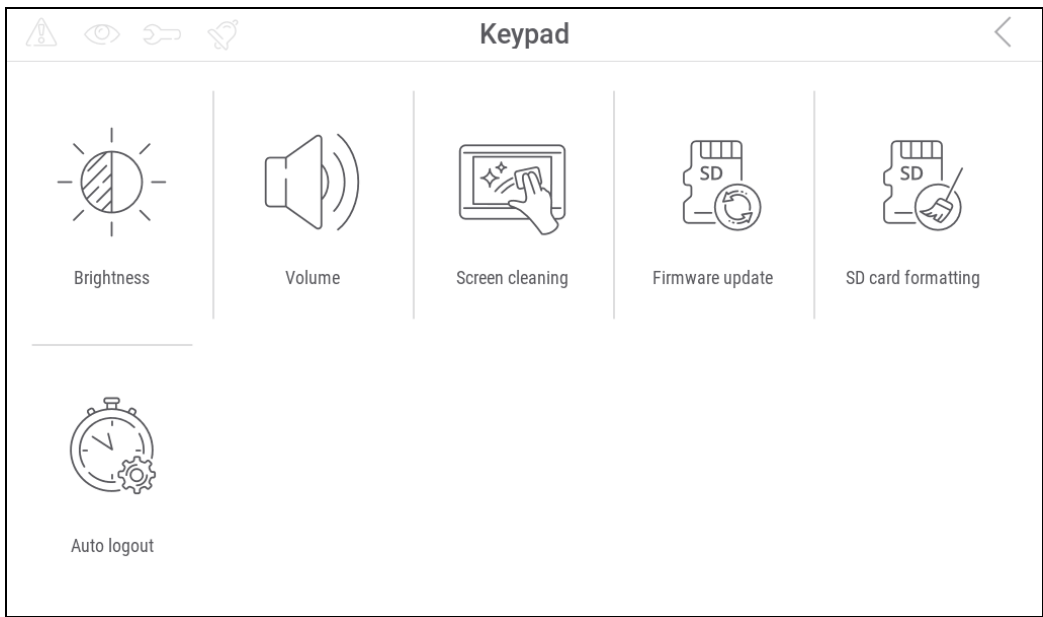





Fig. 26. "Keypad" screen.

7. Tap the "Firmware update" function. Two buttons will be displayed on the bottom of the screen.
8. Tap the  button. The keypad will restart and the firmware update will begin.

### 7.1.2 Keypad in the VERSA system

1. Run the "A. Hide SM now" function (►"0. SrvMod config" ►"A. Hide SM now"). The menu will be hidden.
2. Tap  to the right of the terminal to close the terminal. The user menu home screen will be displayed.
3. Tap the "Keypad" function. The "Keypad" screen will be displayed (Fig. 26).
4. Tap the "Firmware update" function. Two buttons will be displayed on the bottom of the screen.
5. Tap the  button. The keypad will restart and the firmware update will begin.

## 7.2 Update after restart

1. Disconnect the keypad from the power supply.
2. Connect the keypad to the power supply. The keypad will start up and the firmware update will begin.

## 8. Specifications

Supply voltage .....	12 VDC ±15%
Standby current consumption .....	350 mA
Maximum current consumption .....	450 mA
Supported memory cards.....	microSD, micro SDHC
Security grade according to EN 50131 .....	Grade 3
Environmental class according to EN 50130-5 .....	II

Working temperature range .....	-10°C...+55°C
Maximum humidity .....	93±3%
Enclosure dimensions (width x height x thickness) .....	196 x 129 x 22 mm
Weight.....	400 g

## 9. Manual update history

Manual version	Introduced changes
12/21	<ul style="list-style-type: none"> <li>Section “Address setting” has been updated (p. 6).</li> </ul>
01/23	<ul style="list-style-type: none"> <li>Information on the required firmware version of the INTEGRA series control panels has been updated (p. 2).</li> <li>Description of how to connect detectors to the keypad zones has been modified (p. 5).</li> <li>Section “Preparing the image files” has been added (p. 14).</li> <li>Information on the required DLOADX program version for the keypad in the INTEGRA system has been added (p. 14).</li> <li>Note on the keypad wake-up in the INTEGRA system has been added (p. 17).</li> <li>Description of the “No screensaver” option has been added (p. 23).</li> <li>Description of the “No clock” option has been added (p. 23).</li> <li>Description of the “Button” widget has been added (p. 25).</li> <li>Description of the “Analog value” widget has been added (p. 25).</li> <li>Description of the “Thermostat” widget has been added (p. 25).</li> <li>Description of the “Button” widget settings has been added (p. 29).</li> <li>Description of the “Analog value” widget settings has been added (p. 29).</li> <li>Description of the “Thermostat” widget settings has been added (p. 29).</li> <li>Information on the required DLOADX program version for the keypad in the VERSA system has been added (p. 32).</li> <li>Note on the keypad wake-up in the VERSA system has been added (p. 34).</li> <li>Information on widgets unavailable in the VERSA system has been modified (p. 37).</li> <li>Description of how to update the keypad firmware using the keypad in the INTEGRA system has been modified (p. 38).</li> </ul>