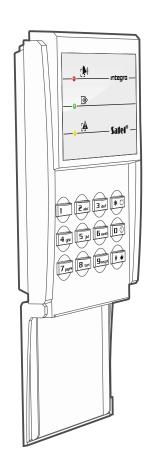


INT-S

Partition keypad





Firmware version 2.02 int-s_en 07/20

IMPORTANT



Read carefully this manual before proceeding to installation.

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

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The following symbols may be used in this manual:



- note;



- caution.

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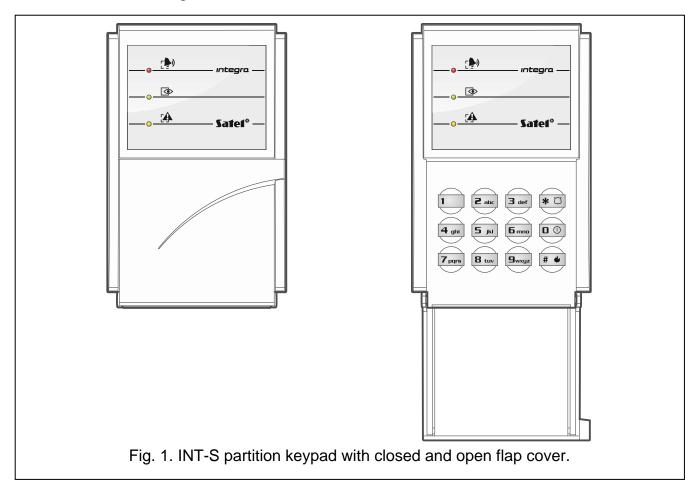
The INT-S partition keypad:

- allows the user to control one partition of the alarm system,
- can control the access to a single door.

The keypad is compatible with the INTEGRA / INTEGRA Plus alarm control panels. The keypad is offered in two versions differing in key backlight color:

INT-S-GR – green backlight,

INT-S-BL - blue backlight.



1. Features

- Arming / disarming and alarm clearing in partition.
- Capability of triggering alarm from the keypad.
- Single door control:
 - relay output for control of electric strike, electromagnetic lock or another door actuator,
 - door status input (NC).
- Control of "24. MONO switch" and "25. BI switch" type outputs.
- The ability to change access code by the user.
- LEDs indicating the partition status.
- 12 keys with backlighting.
- Built-in sounder.
- Tamper protection against enclosure opening and removal from the wall.

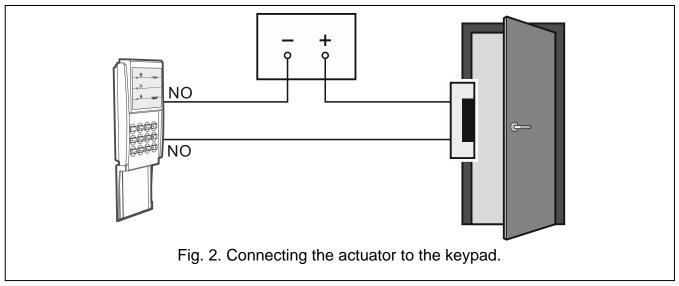
2. Installation



Disconnect power before making any electrical connections.

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

- 1. Open the keypad enclosure.
- 2. Set the partition keypad address (see "Address setting" p. 4).
- 3. Place the enclosure base on the wall and mark the location of mounting holes.
- 4. Drill the holes for wall plugs (anchors).
- 5. Run the wires through the opening in the enclosure base.
- 6. Using wall plugs (anchors) and screws, 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.).
- 7. Connect the CLK, DTA and COM terminals to the appropriate terminals of the control panel expander bus (see the control panel installer manual). It is recommended that an unshielded non-twisted cable be used for making the connection. If you use the twisted-pair type of cable, remember that CLK (clock) and DTA (data) signals must not be sent through one twisted-pair cable. The wires must be run in one cable.
- 8. If the partition keypad is to control an electric strike, electromagnetic lock or another door actuator, connect this device to the NO terminals as shown in Fig. 2. It is not recommended that the door actuator be powered from the same source as the partition keypad.



- 9. If the keypad is to supervise the door status, connect the detector supervising the door status to the IN and COM terminals. If the keypad is not to supervise the door status, connect the IN terminal to the COM terminal or, when configuring the keypad, set value 0 for the "Max. door open time" parameter.
- 10. Connect the power wires to the 12V and COM terminals. The keypad may be powered directly from the control panel, from an expander with power supply or from a power supply unit.
- 11. Close the keypad enclosure.
- 12. Power on the alarm system.
- 13. Start the identification function in the control panel (see the control panel installer manual). The keypad will be identified as "INT-S/SK".

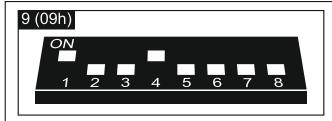
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2.1 Address setting

An individual address (different from that in the other devices connected to the control panel bus) must be set in the keypad.

To set the address, use the DIP switches on the electronics board. The switches have numbers assigned to them. The number for OFF position is 0. The numbers assigned to the switches in ON position are presented in the table 1. The sum of these numbers is the address set.

Switch (ON position)	1	2	3	4	5		
Number	1	2	4	8	16		
Table 1.							



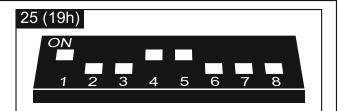


Fig. 3. Examples of partition keypad address setting.

2.2 Description of terminals

NO - relay output

12V - power input

DTA - data (expander communication bus)

CLK - clock (expander communication bus)

COM - common ground

IN - door status input (NC)

3. Configuring

The keypad settings you can configure using:

- DLOADX program: → "Structure" window → "Hardware" tab → "Expansion modules" branch → [keypad name],
- LCD keypad: ▶"Service mode" ▶"Structure" ▶"Hardware" ▶"Expanders" ▶"Settings"
 ▶[keypad name].

3.1 Description of parameters and options

Names of parameters and options from the DLOADX program are used in this manual. Shown in square brackets at the description of a parameter or option is the name presented on the display of the LCD keypad.

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

Partition – partition operated by the keypad.

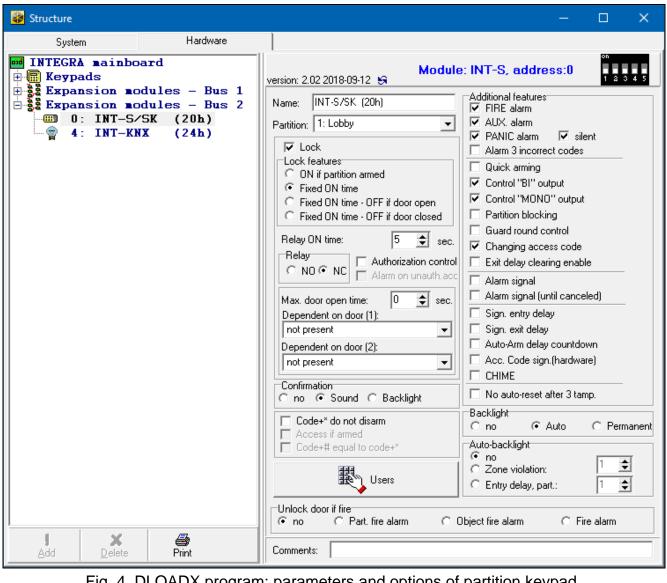


Fig. 4. DLOADX program: parameters and options of partition keypad.

- **Lock** [Lock feature] if this option is enabled, the keypad can control the access to a single door (the following parameters are available: "Lock features", "Relay ON time", "Max. door open time" etc.).
- Lock features [Lock function] mode of operation of the relay output after the access is granted:
 - ON if partition armed [On if part.armed] the relay output will be turned on until the partition is armed. When the partition is armed, users cannot get access (to get access, the user must disarm the partition).
 - **Fixed ON time** [ON time] the relay output will be turned on for the "Relay ON time".
 - Fixed ON time OFF if door open [ON, open → off] the relay output will be turned on until the door is opened (door status input is disconnected from common ground), however not longer than for the "Relay ON time".
 - Fixed ON time OFF if door closed [ON, close-) off] the relay output will be turned on until the door is closed (door status input is reconnected to common ground), however not longer than for the "Relay ON time".
- Relay ON time the time during which the relay output can be turned on after the access is granted. You can program from 1 to 255 seconds. The parameter does not apply to the "ON if partition armed" mode.

- **Relay** [Relay type] status of the deactivated relay:
 - **NO** [Normal.open NO] the relay contacts are open (they close on activating the relay).
 - **NC** [Normal.closed NC] the relay contacts are closed (they open on activating the relay).
- **Authorization control** [Unauth. event] if this option is enabled, unauthorized opening of the door will save the event to the control panel memory.
- **Alarm on unauth. access** [Unauth. alarm] if this option is enabled, unauthorized opening of the door when the partition is armed will trigger an alarm. The option is available if the "Authorization control" option is enabled.
- Max. door open time [Max. door open] the maximum period of time during which the door can be open (the door status input can be disconnected from common ground). If the door is open longer, audible alarm will be triggered in the keypad, and the event will be saved to the control panel memory. You can enter from the 0 to 255 seconds. If you enter 0, the door can be open for any long period of time.
- **Dependent on door (1)** / **Dependent on door (2)** you can select the door that must be closed so that the user can get access (turn the relay output on). It allows you to create an airlock. You may select a door supervised by another expander or alarm system zone programmed as type "57 Technical door open".
- **Confirmation** method of providing feedback to the user after using the keypad:

No - no feedback.

Sound – the keypad will use sounds to give feedback to the user.

Backlight - the keypad will use key backlight to give feedback to the user.

- **Code+* do not disarm** [Code* not dis.] if this option is enabled, entering the code and pressing ★ □ will not disarm the partition (to disarm the partition, the user must enter the code and press # •).
- Access if armed [Code* in arm] if the option is enabled, the users can gain access (turn the relay output on) when the partition is armed. If the option is disabled, the users cannot gain access when the partition is armed. The option is available, if the "Code+* do not disarm" option is enabled. The option does not apply to the "ON if partition armed" mode.
- **Users** [Master users / Users] the administrators and users which are permitted to use the keypad.
- **FIRE alarm** if this option is enabled, pressing and holding # for 3 seconds will trigger the fire alarm.
- **AUX. alarm** [Medical alarm] if this option is enabled, pressing and holding \bigcirc for 3 seconds will trigger the medical alarm.
- **PANIC alarm** if this option is enabled, pressing and holding ★ □ for 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, 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, if the "PANIC alarm" option is enabled.
- **Alarm 3 incorrect codes** [3 wrong codes] if this option is enabled, entering a wrong code three times will trigger an alarm.
- **Quick arming** [Quick arm] if this option is enabled, the user needs no code to arm the partition using the keypad.
- **Control "BI" output** [BI outs ctrl.] if this option is enabled, the ""Bi" output operating" type of users can use the keypad to control outputs.

- **Control "MONO" output** [MONO outs ctr.] if this option is enabled, the "'Mono" output operating" type of users can use the keypad to control outputs.
- **Partition blocking** [Part.blocking] if the option is enabled, using the code by a user of the "Blocking partition" or "Guard" type will block the armed partition (violating a zone belonging to the partition will trigger no alarm). The duration of blocking is to be defined for the partition or the user (the user of "Blocking partition" type).
- **Guard round control** [Guard control] if this option is enabled, using the code by a user of the "Guard" type will be registered as the guard round.
- **Changing access code** [Changing code] if this option is enabled, the user can change own code from the partition keypad.
- **Alarm signal** [Alarm (time)] if this option is enabled, the keypad will audibly signal alarms throughout the "Global alarm time" (parameter programmed in the control panel).
- **Alarm signal (until canceled)** [Alarm (latch)] if this option is enabled, the partition keypad will audibly signal alarms until they are cleared.
- **Sign. entry delay** [Entry time] if this option is enabled, the partition keypad will audibly signal the entry delay countdown.
- **Sign. exit delay** [Exit time] if this option is enabled, the partition keypad will audibly signal the exit delay countdown.
- **Auto-Arm delay countdown** [Auto-arm delay] if this option is enabled, the partition keypad will audibly signal the auto-arm delay countdown.
- **Acc. code sign. (hardware)** [Code entered] if this option is enabled, the partition keypad will confirm with a single beep that the code has been entered. The signaling is useful when there is a delay between entering the code and the sounds emitted after verification of the code by the control panel.
- **CHIME** [Chime zones] if this option is enabled, the partition keypad will audibly signal violation of zones with "Chime in module" option enabled, belonging to the partition operated by means of the keypad.
- **No auto-reset after 3 tamp.** [No autorst.3t.] if this option is enabled, the feature reducing the number of tamper alarms from the module to three is disabled (the feature prevents multiple logging of the same events and applies to successive uncleared alarms).
- **Backlight** keys backlight operation mode:

No – always off.

Auto – on for about 40 seconds after pressing any key. Additionally, it can be turned on if a specific event occurs (see the "Auto-backlight" parameter).

Permanent - always on.

Auto-backlight – if the keys backlight comes on automatically, you can additionally define whether and what event will turn the backlight on:

No – the keys backlight will not be additionally turned on.

Zone violation – the keys backlight will additionally go on if a selected zone is violated.

Entry delay, part. – the keys backlight will additionally go on if entry delay countdown starts in the selected partition.

Unlock door if fire [Doors on fire] – you can define whether and when the fire alarm will unlock the door controlled by the partition keypad (i.e. will activate the relay output):

No [no open] – the door will not be unlocked in the event of fire alarm.

Part. fire alarm [on partit. fire] – the door will be unlocked in the event of fire alarm in the partition to which the keypad is assigned.

Object fire alarm [on object fire] – the door will be unlocked in the event of fire alarm in the object to which the keypad is assigned.

Fire alarm [on any fire] – the door will be unlocked in the event of fire alarm in the alarm system.

4. Using

4.1 LED indicators

LED	Color	Description
[•])	red	ON or flashing – alarm or alarm memory
	green	ON – partition is armedflashing – exit delay countdown is running in the partition
	yellow	flashing – trouble or trouble memory (the LED goes out when the partition is armed)



Information about the armed state can be extinguished after a preset time.

All LEDs flashing in turn indicate that there is no communication with the control panel.

4.2 Sound signaling

4.2.1 Beeps generated when operating



The installer can disable the sound signaling or replace it with flashing of the keys backlight (see "Configuring").

- 1 short beep any number key is pressed or the code is used.
- **2 short beeps** acceptance of the first code during two code arming / disarming.
- 3 short beeps confirmation of:
 - starting the procedure of arming (there is exit delay in the partition) or arming (there is no exit delay in the partition),
 - disarming and/or alarm clearing.
- **4 short and 1 long beeps** confirmation of function execution.
- **3 pairs of short beeps** code change is required.
- **1 long beep** refusal to arm (there are violated zones in the partition or there is a trouble).
- **2 long beeps** unknown code.
- 3 long beeps unavailable function.

4.2.2 Signaling events

i

The installer defines whether events are to be signaled audibly (see "Configuring").

5 short beeps – zone violation (CHIME).

Long beep every 3 seconds, followed by a series of short beeps for 10 seconds and 1 long beep — countdown of exit delay (if the time is shorter than 10 seconds, only the final sequence of short beeps will be generated).

A sequence of 7 beeps of diminishing duration, repeated every few seconds – countdown of auto-arming delay.

2 short beeps every second – countdown of entry delay.

Continuous beep – alarm.

Long beep every 2 seconds – alarm memory.

Long beep every second – fire alarm.

Short beep every 2 seconds – fire alarm memory.

Very short beeps – door open too long.

4.3 Code

Most of the functions are available after entering the code. By factory default, the following codes are programmed in the control panel:

service code: 12345

object 1 master user (administrator) code: 1111



The factory default codes should be changed before you start using your alarm system

Do not make your code available to other people.

4.4 Available functions

Availability of the functions depends on:

- type and rights of the user,
- keypad settings,
- · partition state.



4.4.1 [Code]* 🗆

Enter the code and press * 🖰 to:

- disarm the partition,
- · clear alarm,
- gain access (turn on the expander relay output),
- toggle the state of "25. BI switch" type outputs,
- turn on the "24. MONO switch" type outputs,
- confirm the guard round,
- temporary block the partition.

You can start two or more functions at the same time (e.g. disarming, alarm clearing and gaining access).

4.4.2 [Code]# *

Enter the code and press # • to:

- start the procedure of partition arming / arm the partition,
- disarm the partition,
- clear alarm,
- gain access (turn on the expander relay output),
- toggle the state of "25. BI switch" type outputs,
- turn on the "24. MONO switch" type outputs,
- confirm the guard round,
- temporary block the partition,
- unblock access to cash machine.

You can start two or more functions at the same time (e.g. disarming, alarm clearing and gaining access).

4.4.3 Quick arming

The installer may permit arming without using the code.

- 1. To select the arming mode, press one of the keys:
 - full arming,
 - 1 full arming + bypasses,
 - **2** abc arming without interior,
 - 3 def arming without interior and without entry delay.
- 2. Press # . This will start the partition arming procedure (if the exit delay is 0, the partition will be armed instantly).

4.4.4 Triggering the alarm from keypad

The installer can permit triggering alarms from the keypad. To trigger an alarm, do the following:

fire alarm – press and hold down # ● for about 3 seconds,

medical (auxiliary) alarm – press and hold down □ ① for about 3 seconds,

panic alarm – press and hold down ★ □ for about 3 seconds. The installer defines whether the audible or silent panic alarm will be triggered.

4.4.5 Silencing alarm at the partition keypad

Press any number key to silence the keypad sounder during an alarm condition for about 40 seconds.

4.4.6 Code changing

You can change your code if the "Changing access code" option is enabled.

- 1. Press and hold the 1 key for about 3 seconds.
- 2. When the (and LEDs start flashing alternately, enter the old code and press # ...
- 3. When the (and LEDs start flashing alternately, enter the new code and press #).

4.5 Impact of the EN 50131 standard on keypad use

If the control panel has been configured in accordance with the requirements of Standard EN 50131 for Grade 2 (INTEGRA) or Grade 3 (INTEGRA Plus):

- the keypad does not signal alarms,
- the LED indicates alarms only after entering the code,
- flashing of the LED indicates a trouble, bypassed zones or an alarm,
- the LED goes out after 60 seconds (Grade 3),
- quick arming functions are not available,
- arming procedure cannot be initiated, if there are violated zones in the partition or there is a trouble in the system,
- the partition will not be armed if, at the moment of completion of exit delay countdown:
 - there is a violated zone in partition which was not violated when the arming procedure was started,
 - there is a trouble which did not exist when the arming procedure was started.

5. Specifications

Supply voltage	12 VDC ±15%
Standby current consumption	40 mA
Maximum current consumption	75 mA
Relay output (resistive load)	1 A / 30 VDC
Environmental class according to EN50130-5	
Operating temperature range	10°C+55°C
Maximum humidity	93±3%
Dimensions	80 x 127 x 24 mm
Weight	110 g