# INTEGRA S
## PARTITION KEYPAD

integra-s_e 02/05

The INTEGRA S partition keypad is a device designed for work in conjunction with the alarm control panels of INTEGRA series. It is used to control the arming mode in one partition, with an option of monitoring access to and controlling operation of the electromagnetic door locks, as well as monitoring closure of those doors. The keypad makes it possible to change the user code and call the functions controlling the external devices.

## 1. Description of Electronics Board

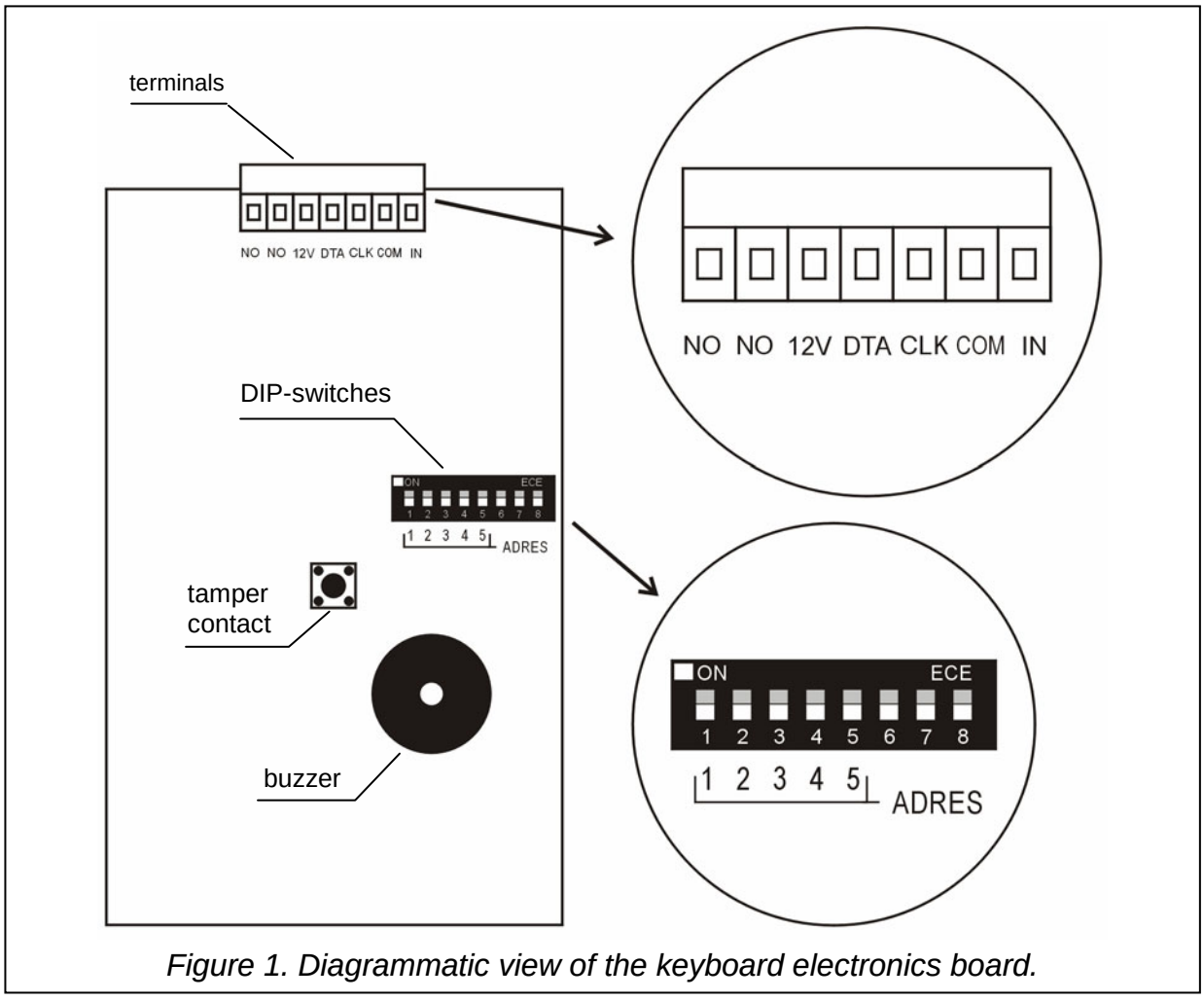



*Figure 1. Diagrammatic view of the keyboard electronics board.*

**MODULE TERMINALS:**

**NO** - relay terminal
**IN** - door state control input (NC)
**COM** - common ground
**+12V** - power supply input
**DTA, CLK** - expander bus

The two **NO** relay terminals are used to operate the electromagnetic door lock.

The **IN** door state control input, if not used, should be shorted to the common ground.

The **package of DIP-switches** on the board is used for setting the individual address of the module.

In a properly installed module, the tamper contact spring should be pressed against the wall.

## 2. Installation and Connection of the Module

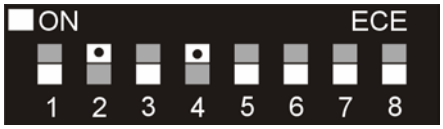
***Note:*** *Prior to hookup of the module to the existing alarm system, disconnect the whole system from the mains supply.*

1. Dismantle the plastic module housing by pressing in the snap fasteners at its underside.
2. Attach the underside of the plastic module housing to the wall. The module lead-ins should be passed through the rectangular opening in that part of the housing.
3. Connect the wires of expander bus to the terminals DTA, CLK and COM. Up to 32 modules of various types can be connected to one bus.
4. Using the switches, set the expander address. The address should be set by means of the switches 1 to 5. The status of the other switches (6, 7, 8) is irrelevant. In order to determine the expander address, add the numbers corresponding to the switches being set in **ON** position, as per the table below:

| Switch number | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| **Numerical equivalent** | **1** | **2** | **4** | **8** | **16** |

Addressing examples:

address = 4




address =2+8=10

address =1+8+16=25

Five switches make it possible to assign addresses to 32 expanders (numbers from 0 to 31). The addresses of expanders connected to one bus cannot be repeated, but the addressing order can be random. It is recommended that consecutive addresses, starting from zero, be assigned to expanders and modules connected to one bus. This will allow to avoid problems during expansion of the system.

5. Connect the module supply to the +12V terminal. The keypad supply does not have to be provided from the control panel main board. An additional power supply unit or expander with power supply can be used for this purpose. Details regarding the cable connections are described in the installer's manual for the INTEGRA Alarm Control Panels.
6. Connect the wires of the door state control sensor to the IN and COM terminals.
7. If the keypad is to serve as a code lock, connect the wires to control the electromagnetic door lock (or another device) to the NO terminals.

8. Secure the keypad module on the wall by snapping in the plastic housing.

# 3. Starting the Module

1. Switch on the alarm system power supply.
2. Call the „*Expander identification*" function (→Service mode; →Structure; →Hardware) from the LCD keypad. After identification, all the settings have either the value of zero or „none", and the options are inactive. No acknowledgement when pressing the keys makes one think that the module fails to respond to entering a code.

***Note:*** *During the identification process, the control panel saves in the module memory a special (16-bit) number, used for checking the module presence in the system. Replacement of the module with another one (even having the same address set on the switches) without a new identification, will result in triggering the alarm (module tamper - verification error).*

3. Using the LCD keypad / DLOADX program, configure the keypad functions and define the users authorized to use the given partition keypad.
4. Save the data in the FLASH memory and quit the service mode.

# 4. Programming the Partition Keypad Settings

The partition keypad can be programmed by means of the LCD keypad (→Service mode →Structure →Hardware →Expanders →Settings →*expander selection*) or a computer with the DLOADX program. Described below are settings and options available for programming. Abbreviations from the LCD keypad display are shown at some of the functions.

**Name** – the option to give an individual (16-character) name to the module. This option can be accessed in the LCD keypad as follows: →Service mode →Structure →Hardware →Expanders →Names → *expander selection*.

**Partition** - assignment of the keypad to a partition selected from the list.

**Lock feature** – the option available in the LCD keypad – its activation provides access to the **Lock** submenu.

**Lock** – the option available in the DLOADX program – its activation provides access to the lock feature options.

**The options "Lock feature" (LCD) and "Lock" (DLOADX) refer to operating the electromagnetic door lock** or another device that requires the access control) to be operated by **means of the partition keypad.** This function is made available to any user selected in the „Users" option. The operation is effected by controlling the **NO** relay contacts (closed; open). The normal (basic) state of the relay contacts depends on how the „Relay type" option is set. Description of the function refers to a typical application.

**Lock feature**

**ON if partition armed** - selecting this option sets the bistable operating mode of the relay (i.e. it is active when the partition is armed and normal when the partition is disarmed).

***Note:*** *When operating in this mode the relay will change its state automatically, if the partition is disarmed from the given keypad. When the partition is disarmed from another keypad, the state of the relay will change on entering the CODE and pressing the [*] key on the given partition keypad.*

**Fixed ON time** [ON time] - this option sets the monostable operating mode of the relay. When the door opening function is called by the user ([CODE] [*]), the relay gets activated for the time period entered in the „**Relay ON time**", and then returns to its normal state.

**Fixed ON time - OFF if door open** [ON, open→off] - the relay is active until the door is opened (the IN input disconnected from common ground), but not longer than for the „relay ON time".

**Fixed ON time - OFF if door closed** [ON, close→off] - the relay is active during the time when the door is open (the IN input cut off from the common ground) and deactivates on closing the door (reconnection of the IN input to common ground), but not longer than for the „relay ON time".

**Relay ON time** – the time period during which the relay is active. Duration of the „relay ON time" can be from **1** to **255** seconds.

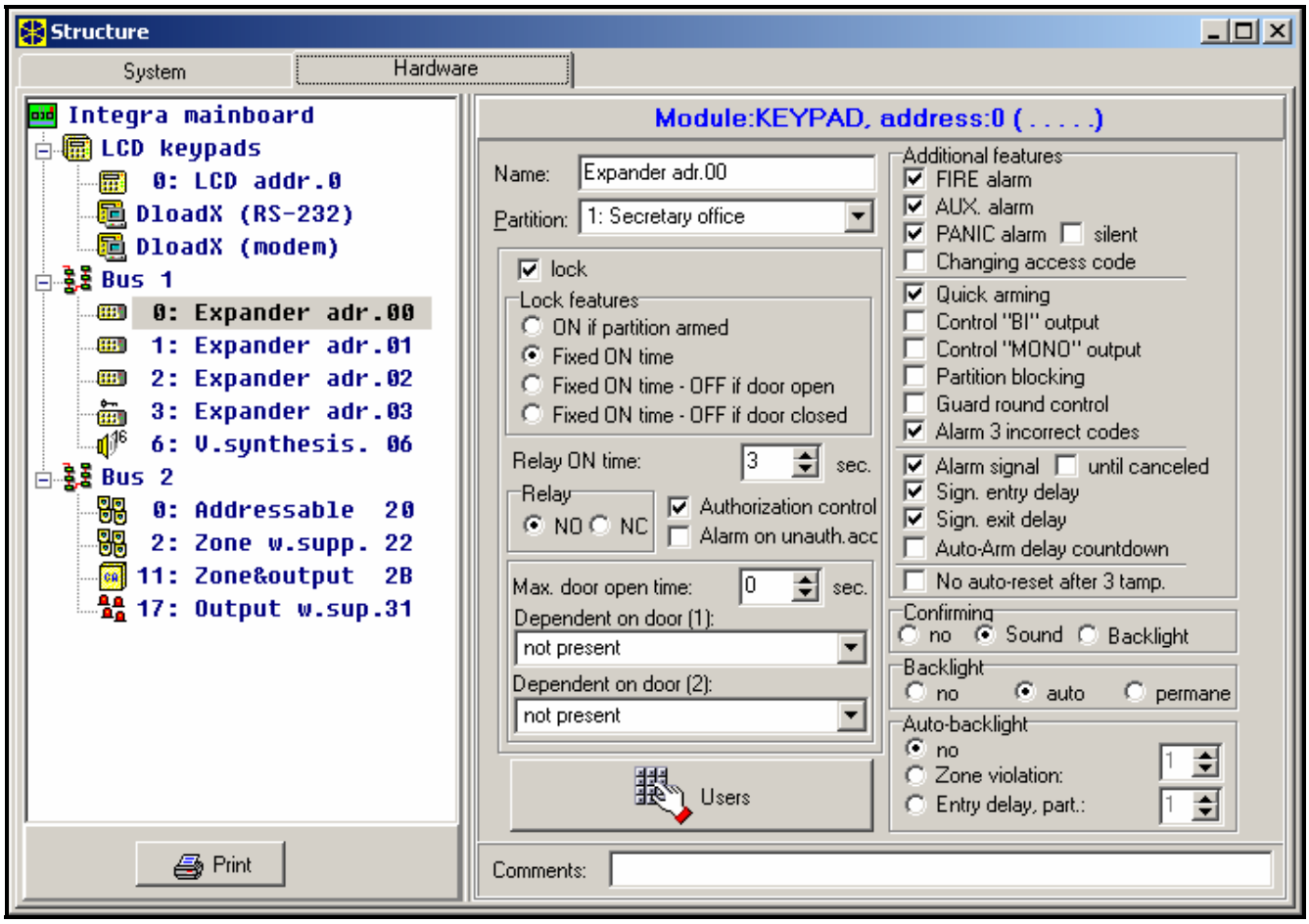



*Figure 2. DLOADX program window with partition keypad options.*

**Relay type** - this option defines the operating mode of the relay contacts:

**NO** - the NO contacts are normally open, they close on activating the relay (during its active state),

**NC** - the NC contacts are normally closed, they open on activating the relay (during its active state).

**Authorization control** [Unauth. event] – opening the door without entering a password from the keypad (e.g. with the key) will generate an „Unauthorized door opening" event, it can also be signaled on the output type 93 (UNAUTHORIZED ACCESS).

**Alarm on unauth. access** [Unauth. alarm] – when the partition to which the module is assigned is armed, unauthorized opening of the door will trigger the alarm and can be additionally signaled on the output type 94 (ALARM – UNAUTHORIZED ACCESS).

**Max. door open time** - this option defines the time after expiry of which the module will report the „Long opened door" event to the control panel and activate the audible alarm. The duration can be set from **0** to **255** seconds.

**Dependent on door 1** (or **Dependent on door 2**) - this function provides a list to choose the door which must be closed for the lock to operate. Monitoring of the door state is effected through the IN input in the partition keypad or code lock or the zone type 57 (TECHNICAL - DOOR OPEN). Two dependent doors can be selected. The function allows to create a „sluice" type passage.

**Master users / Users** - this function defines master users / users authorized to use the given keypad.

**Alarms**

**FIRE alarm** - holding down the key will trigger the fire alarm.

**AUX. alarm** [Medical alarm] - holding down the key will trigger the auxiliary alarm.

**PANIC alarm** - holding down the key will trigger the PANIC alarm.

**Silent PANIC alarm** - with this option selected, triggering the panic alarm from the keypad will not set off the loud signaling; instead, a message will be sent to the monitoring station and the output type 12 (SILENT ALARM) will be activated.

**Alarm 3 incorrect codes** [3 bad codes] - entering a code unknown to the control panel three times will trigger alarm.

**Options**

**Quick arming** - arming by pressing successively the [0] and [#] keys.

**Control BI output** – the keypad accepts the "*BI output control*" type of codes.

**Control MONO output** – the keypad accepts the "*MONO output control*" type of codes.

**Partition blocking** - entering the guard code when the partition is armed will temporarily bypass the partition.

**Guard round control** - entering the guard code ([CODE][#] or [CODE][*]) will be recorded as completion of the round.

**Changing access code** - this option enables the function of the user code changing.

**Signaling**

**Alarm signaling (fixed time)** - acoustic alarm signaling in the given partition (through the total duration of alarm).

**Alarm signaling (latch)** - acoustic alarm signaling in the given partition until the alarm is cleared.

**Signaling entry delay** - acoustic signaling of the countdown of entry delay time.

**Signaling exit delay** - acoustic signaling of the countdown of exit delay time.

**Auto-Arm delay countdown**– the keypad will be acoustically signaling the countdown of the auto-arming delay in the partition it has been assigned to.

**Confirming** - this option defines the way of communication between the control panel and the partition keypad user:

**No** – the function of keypad operation acknowledgement is disabled.

**Sound** - the keypad will generate beeps as described in the USER MANUAL for the INTEGRA alarm control panel.

**Backlight** - the audible signaling will be replaced by the blinking keypad illumination as described in the USER MANUAL for the INTEGRA alarm control panel..

**Backlight** - defines the mode of keypad illumination

**No** - keypad backlighting disabled.

**Auto** - keypad backlighting goes on automatically on pressing any key; the function has additional options (submenu „Auto-backlight” in LCD keypad):

- **no auto-backlight** - illumination only activated by pressing one of the keys,
- **zone violation** - backlighting activated by pressing a key or by violation of the zone,
- **entry delay, part.** - backlighting activated by pressing a key or by starting the countdown of entry delay time in the indicated partition.

***Note:*** *Automatic keypad illumination is ON for approx. 40 seconds from the moment of its activation or from the last press of any key.*

**Permanent** - keypad backlighting is permanently "ON".

**No auto-reset after 3 tampers** - each expander automatically disables the tamper alarming in the given expander after three consecutive (not cleared) tamper alarms. This prevents multiple recording of the same events in the control panel memory. The option allows this feature to be disabled.

# 5. Technical Data

Nominal supply voltage ..... 12V DC
Maximum current consumption .....50mA
Maximum voltage switched over by relay..... 24V
Maximum current switched over by relay ..... 2A

| | |
|---|---|
| The latest EC declarations of conformity and certificates are available for downloading on the website **www.satel.pl** | CE |

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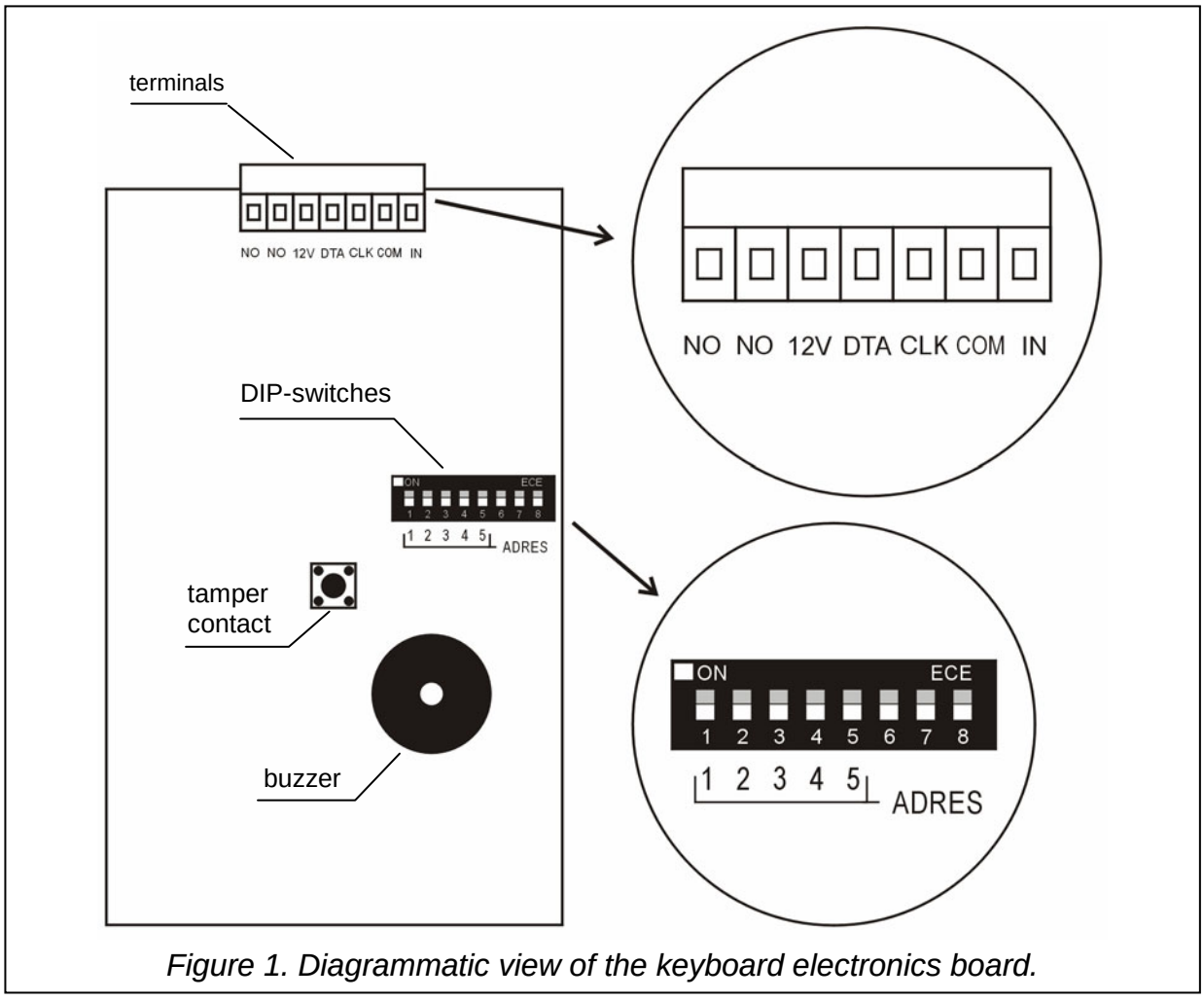


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The **IN** door state control input, if not used, should be shorted to the common ground.

The **package of DIP-switches** on the board is used for setting the individual address of the module.

In a properly installed module, the tamper contact spring should be pressed against the wall.

## 2. Installation and Connection of the Module

***Note:*** *Prior to hookup of the module to the existing alarm system, disconnect the whole system from the mains supply.*

1. Dismantle the plastic module housing by pressing in the snap fasteners at its underside.
2. Attach the underside of the plastic module housing to the wall. The module lead-ins should be passed through the rectangular opening in that part of the housing.
3. Connect the wires of expander bus to the terminals DTA, CLK and COM. Up to 32 modules of various types can be connected to one bus.
4. Using the switches, set the expander address. The address should be set by means of the switches 1 to 5. The status of the other switches (6, 7, 8) is irrelevant. In order to determine the expander address, add the numbers corresponding to the switches being set in **ON** position, as per the table below:

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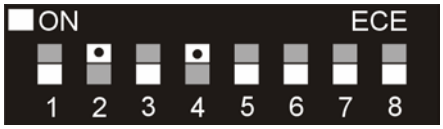


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1. Switch on the alarm system power supply.
2. Call the „*Expander identification*" function (→Service mode; →Structure; →Hardware) from the LCD keypad. After identification, all the settings have either the value of zero or „none", and the options are inactive. No acknowledgement when pressing the keys makes one think that the module fails to respond to entering a code.

***Note:*** *During the identification process, the control panel saves in the module memory a special (16-bit) number, used for checking the module presence in the system. Replacement of the module with another one (even having the same address set on the switches) without a new identification, will result in triggering the alarm (module tamper - verification error).*

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The partition keypad can be programmed by means of the LCD keypad (→Service mode →Structure →Hardware →Expanders →Settings →*expander selection*) or a computer with the DLOADX program. Described below are settings and options available for programming. Abbreviations from the LCD keypad display are shown at some of the functions.

**Name** – the option to give an individual (16-character) name to the module. This option can be accessed in the LCD keypad as follows: →Service mode →Structure →Hardware →Expanders →Names → *expander selection*.

**Partition** - assignment of the keypad to a partition selected from the list.

**Lock feature** – the option available in the LCD keypad – its activation provides access to the **Lock** submenu.

**Lock** – the option available in the DLOADX program – its activation provides access to the lock feature options.

**The options "Lock feature" (LCD) and "Lock" (DLOADX) refer to operating the electromagnetic door lock** or another device that requires the access control) to be operated by **means of the partition keypad.** This function is made available to any user selected in the „Users" option. The operation is effected by controlling the **NO** relay contacts (closed; open). The normal (basic) state of the relay contacts depends on how the „Relay type" option is set. Description of the function refers to a typical application.

**Lock feature**

**ON if partition armed** - selecting this option sets the bistable operating mode of the relay (i.e. it is active when the partition is armed and normal when the partition is disarmed).

***Note:*** *When operating in this mode the relay will change its state automatically, if the partition is disarmed from the given keypad. When the partition is disarmed from another keypad, the state of the relay will change on entering the CODE and pressing the [*] key on the given partition keypad.*

**Fixed ON time** [ON time] - this option sets the monostable operating mode of the relay. When the door opening function is called by the user ([CODE] [*]), the relay gets activated for the time period entered in the „**Relay ON time**", and then returns to its normal state.

**Fixed ON time - OFF if door open** [ON, open→off] - the relay is active until the door is opened (the IN input disconnected from common ground), but not longer than for the „relay ON time".

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**Relay ON time** – the time period during which the relay is active. Duration of the „relay ON time" can be from **1** to **255** seconds.

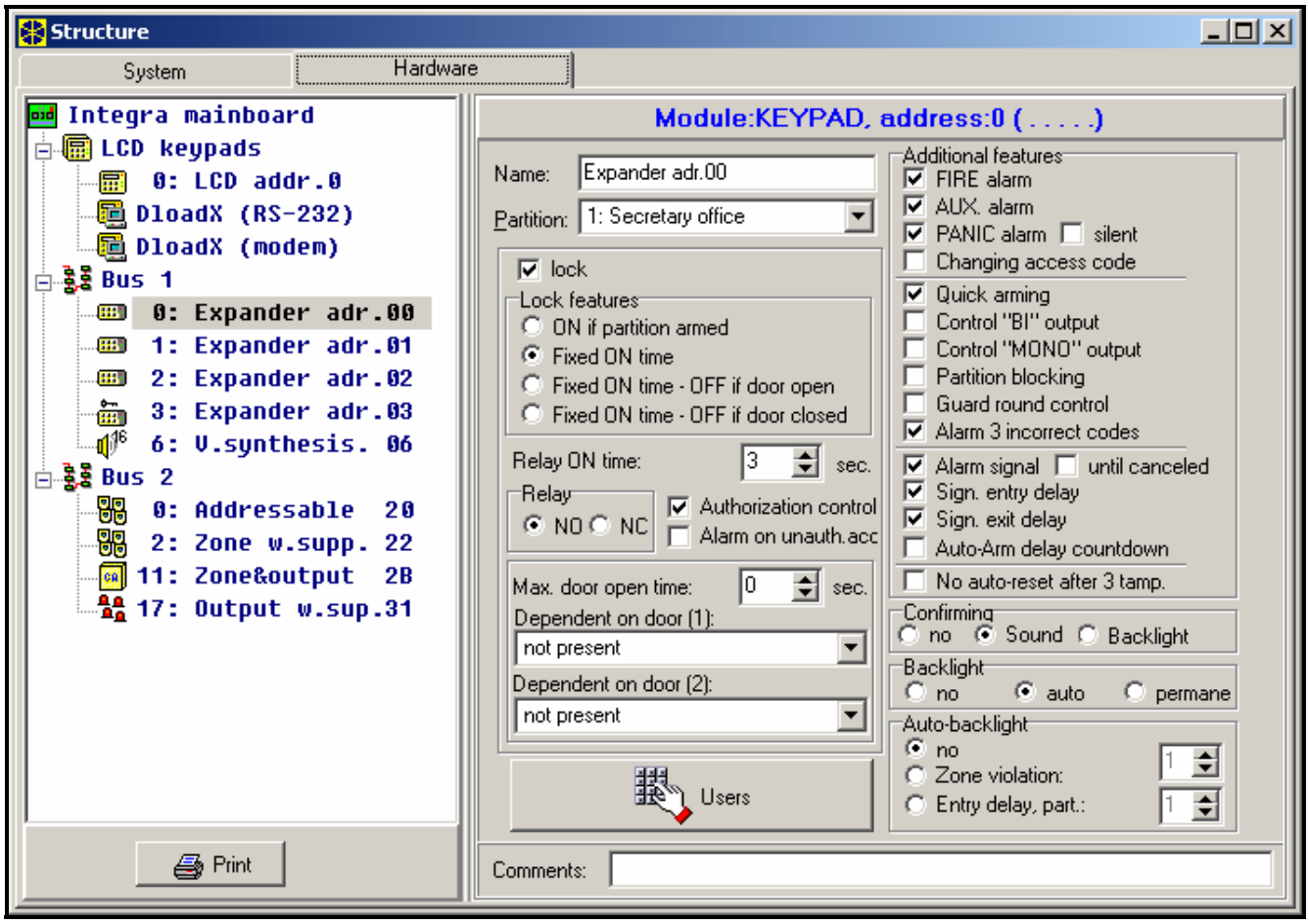


*Figure 2. DLOADX program window with partition keypad options.*

**Relay type** - this option defines the operating mode of the relay contacts:

**NO** - the NO contacts are normally open, they close on activating the relay (during its active state),

**NC** - the NC contacts are normally closed, they open on activating the relay (during its active state).

**Authorization control** [Unauth. event] – opening the door without entering a password from the keypad (e.g. with the key) will generate an „Unauthorized door opening" event, it can also be signaled on the output type 93 (UNAUTHORIZED ACCESS).

**Alarm on unauth. access** [Unauth. alarm] – when the partition to which the module is assigned is armed, unauthorized opening of the door will trigger the alarm and can be additionally signaled on the output type 94 (ALARM – UNAUTHORIZED ACCESS).

**Max. door open time** - this option defines the time after expiry of which the module will report the „Long opened door" event to the control panel and activate the audible alarm. The duration can be set from **0** to **255** seconds.

**Dependent on door 1** (or **Dependent on door 2**) - this function provides a list to choose the door which must be closed for the lock to operate. Monitoring of the door state is effected through the IN input in the partition keypad or code lock or the zone type 57 (TECHNICAL - DOOR OPEN). Two dependent doors can be selected. The function allows to create a „sluice" type passage.

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**FIRE alarm** - holding down the key will trigger the fire alarm.

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**Silent PANIC alarm** - with this option selected, triggering the panic alarm from the keypad will not set off the loud signaling; instead, a message will be sent to the monitoring station and the output type 12 (SILENT ALARM) will be activated.

**Alarm 3 incorrect codes** [3 bad codes] - entering a code unknown to the control panel three times will trigger alarm.

**Options**

**Quick arming** - arming by pressing successively the [0] and [#] keys.

**Control BI output** – the keypad accepts the "*BI output control*" type of codes.

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# 5. Technical Data

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Maximum current consumption .....50mA
Maximum voltage switched over by relay..... 24V
Maximum current switched over by relay ..... 2A

| | |
|---|---|
| The latest EC declarations of conformity and certificates are available for downloading on the website **www.satel.pl** | CE |

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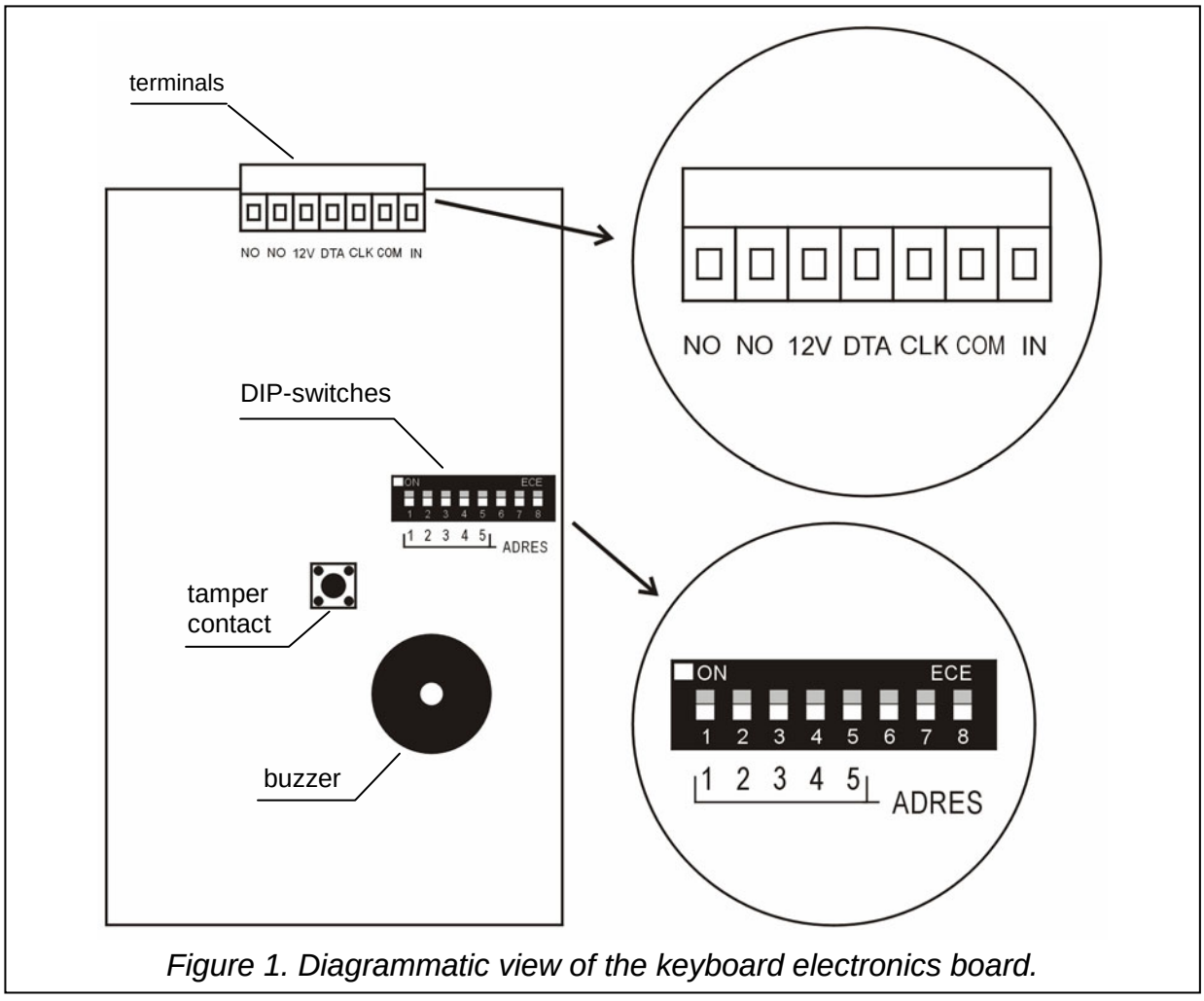


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## 2. Installation and Connection of the Module

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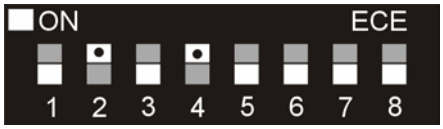


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1. Switch on the alarm system power supply.
2. Call the „*Expander identification*" function (→Service mode; →Structure; →Hardware) from the LCD keypad. After identification, all the settings have either the value of zero or „none", and the options are inactive. No acknowledgement when pressing the keys makes one think that the module fails to respond to entering a code.

***Note:*** *During the identification process, the control panel saves in the module memory a special (16-bit) number, used for checking the module presence in the system. Replacement of the module with another one (even having the same address set on the switches) without a new identification, will result in triggering the alarm (module tamper - verification error).*

3. Using the LCD keypad / DLOADX program, configure the keypad functions and define the users authorized to use the given partition keypad.
4. Save the data in the FLASH memory and quit the service mode.

# 4. Programming the Partition Keypad Settings

The partition keypad can be programmed by means of the LCD keypad (→Service mode →Structure →Hardware →Expanders →Settings →*expander selection*) or a computer with the DLOADX program. Described below are settings and options available for programming. Abbreviations from the LCD keypad display are shown at some of the functions.

**Name** – the option to give an individual (16-character) name to the module. This option can be accessed in the LCD keypad as follows: →Service mode →Structure →Hardware →Expanders →Names → *expander selection*.

**Partition** - assignment of the keypad to a partition selected from the list.

**Lock feature** – the option available in the LCD keypad – its activation provides access to the **Lock** submenu.

**Lock** – the option available in the DLOADX program – its activation provides access to the lock feature options.

**The options "Lock feature" (LCD) and "Lock" (DLOADX) refer to operating the electromagnetic door lock** or another device that requires the access control) to be operated by **means of the partition keypad.** This function is made available to any user selected in the „Users" option. The operation is effected by controlling the **NO** relay contacts (closed; open). The normal (basic) state of the relay contacts depends on how the „Relay type" option is set. Description of the function refers to a typical application.

**Lock feature**

**ON if partition armed** - selecting this option sets the bistable operating mode of the relay (i.e. it is active when the partition is armed and normal when the partition is disarmed).

***Note:*** *When operating in this mode the relay will change its state automatically, if the partition is disarmed from the given keypad. When the partition is disarmed from another keypad, the state of the relay will change on entering the CODE and pressing the [*] key on the given partition keypad.*

**Fixed ON time** [ON time] - this option sets the monostable operating mode of the relay. When the door opening function is called by the user ([CODE] [*]), the relay gets activated for the time period entered in the „**Relay ON time**", and then returns to its normal state.

**Fixed ON time - OFF if door open** [ON, open→off] - the relay is active until the door is opened (the IN input disconnected from common ground), but not longer than for the „relay ON time".

**Fixed ON time - OFF if door closed** [ON, close→off] - the relay is active during the time when the door is open (the IN input cut off from the common ground) and deactivates on closing the door (reconnection of the IN input to common ground), but not longer than for the „relay ON time".

**Relay ON time** – the time period during which the relay is active. Duration of the „relay ON time" can be from **1** to **255** seconds.

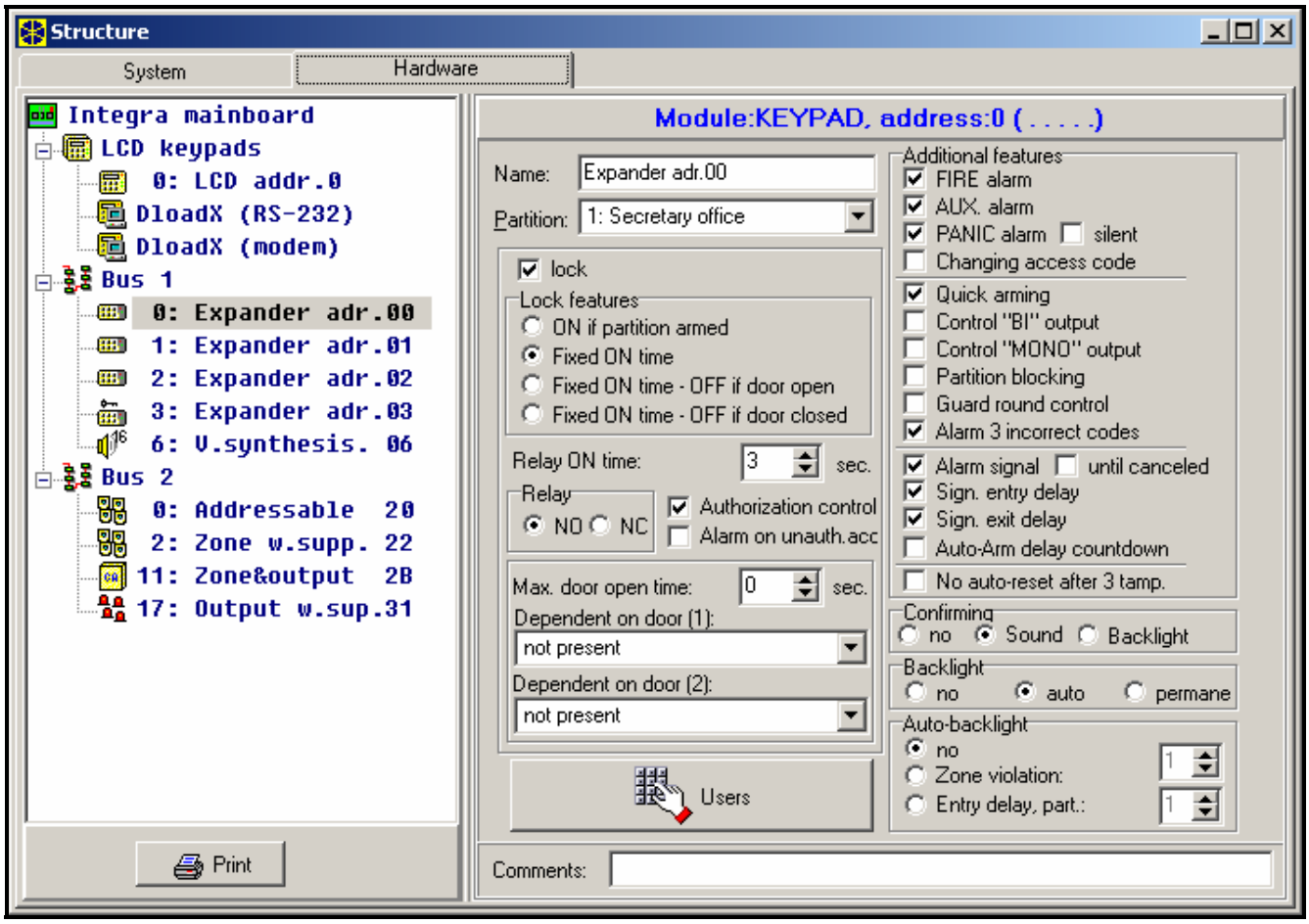


*Figure 2. DLOADX program window with partition keypad options.*

**Relay type** - this option defines the operating mode of the relay contacts:

**NO** - the NO contacts are normally open, they close on activating the relay (during its active state),

**NC** - the NC contacts are normally closed, they open on activating the relay (during its active state).

**Authorization control** [Unauth. event] – opening the door without entering a password from the keypad (e.g. with the key) will generate an „Unauthorized door opening" event, it can also be signaled on the output type 93 (UNAUTHORIZED ACCESS).

**Alarm on unauth. access** [Unauth. alarm] – when the partition to which the module is assigned is armed, unauthorized opening of the door will trigger the alarm and can be additionally signaled on the output type 94 (ALARM – UNAUTHORIZED ACCESS).

**Max. door open time** - this option defines the time after expiry of which the module will report the „Long opened door" event to the control panel and activate the audible alarm. The duration can be set from **0** to **255** seconds.

**Dependent on door 1** (or **Dependent on door 2**) - this function provides a list to choose the door which must be closed for the lock to operate. Monitoring of the door state is effected through the IN input in the partition keypad or code lock or the zone type 57 (TECHNICAL - DOOR OPEN). Two dependent doors can be selected. The function allows to create a „sluice" type passage.

**Master users / Users** - this function defines master users / users authorized to use the given keypad.

**Alarms**

**FIRE alarm** - holding down the key will trigger the fire alarm.

**AUX. alarm** [Medical alarm] - holding down the key will trigger the auxiliary alarm.

**PANIC alarm** - holding down the key will trigger the PANIC alarm.

**Silent PANIC alarm** - with this option selected, triggering the panic alarm from the keypad will not set off the loud signaling; instead, a message will be sent to the monitoring station and the output type 12 (SILENT ALARM) will be activated.

**Alarm 3 incorrect codes** [3 bad codes] - entering a code unknown to the control panel three times will trigger alarm.

**Options**

**Quick arming** - arming by pressing successively the [0] and [#] keys.

**Control BI output** – the keypad accepts the "*BI output control*" type of codes.

**Control MONO output** – the keypad accepts the "*MONO output control*" type of codes.

**Partition blocking** - entering the guard code when the partition is armed will temporarily bypass the partition.

**Guard round control** - entering the guard code ([CODE][#] or [CODE][*]) will be recorded as completion of the round.

**Changing access code** - this option enables the function of the user code changing.

**Signaling**

**Alarm signaling (fixed time)** - acoustic alarm signaling in the given partition (through the total duration of alarm).

**Alarm signaling (latch)** - acoustic alarm signaling in the given partition until the alarm is cleared.

**Signaling entry delay** - acoustic signaling of the countdown of entry delay time.

**Signaling exit delay** - acoustic signaling of the countdown of exit delay time.

**Auto-Arm delay countdown**– the keypad will be acoustically signaling the countdown of the auto-arming delay in the partition it has been assigned to.

**Confirming** - this option defines the way of communication between the control panel and the partition keypad user:

**No** – the function of keypad operation acknowledgement is disabled.

**Sound** - the keypad will generate beeps as described in the USER MANUAL for the INTEGRA alarm control panel.

**Backlight** - the audible signaling will be replaced by the blinking keypad illumination as described in the USER MANUAL for the INTEGRA alarm control panel..

**Backlight** - defines the mode of keypad illumination

**No** - keypad backlighting disabled.

**Auto** - keypad backlighting goes on automatically on pressing any key; the function has additional options (submenu „Auto-backlight” in LCD keypad):

- **no auto-backlight** - illumination only activated by pressing one of the keys,
- **zone violation** - backlighting activated by pressing a key or by violation of the zone,
- **entry delay, part.** - backlighting activated by pressing a key or by starting the countdown of entry delay time in the indicated partition.

***Note:*** *Automatic keypad illumination is ON for approx. 40 seconds from the moment of its activation or from the last press of any key.*

**Permanent** - keypad backlighting is permanently "ON".

**No auto-reset after 3 tampers** - each expander automatically disables the tamper alarming in the given expander after three consecutive (not cleared) tamper alarms. This prevents multiple recording of the same events in the control panel memory. The option allows this feature to be disabled.

# 5. Technical Data

Nominal supply voltage ..... 12V DC
Maximum current consumption .....50mA
Maximum voltage switched over by relay..... 24V
Maximum current switched over by relay ..... 2A

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|---|---|
| The latest EC declarations of conformity and certificates are available for downloading on the website **www.satel.pl** | CE |

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