JA-10E BUS keypad

*The keypad is a component of the **JA-10** system used to control the control panel and display its current status. Using an external input a door detector can be connected to the keypad.*

It is necessary to use this manual in combination with the JA-10 installation and user manuals.

The keypad contains 4 function buttons (5), an LCD display (3), a system indicator (2), status indicators A, B, C, D (1), a keypad with an RFID chip card/tag reader (4).
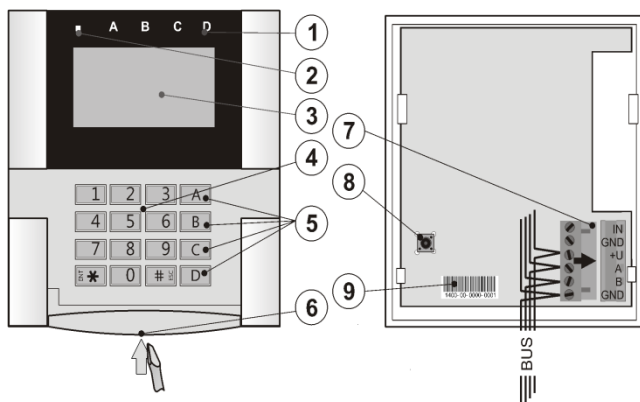

Figure 1 : 1 – status indicators; 2 – system indicator; 3 – LCD display; 4 – keypad and the RFID reader; 5 – function buttons A, B, C, D; 6 – keypad opening tab; 7 – detachable BUS terminals; 8 – tamper contact; 9 – production number

Installation

1. Open the keypad housing by pressing the tab on the bottom (6) using a screwdriver. The tab is also accessible from the front after opening the keypad cover.
2. Break away a hole in the plastic base, run the cable through and screw the plastic back on a selected place. Connect the cable to the BUS terminals (7). For easier installation you can detach the BUS terminals, connect the cables and re-attach them.

> ⚠ **Always switch the power off before connecting the keypad to the BUS.**

3. Insert the keypad back into the plastic base. Make sure the conductors do not touch the tamper contact spring.
4. Proceed according to the control panel installation manual. Basic procedure:
   a. When the device is switched on, the system indicator (2) will start flashing yellow repeatedly to indicate that the keypad has not yet been enrolled to the system.
   b. Open the **N-Link** software, select the required position in the **Devices** window, and click on the **Enroll** button which will open a **Device information** dialogue window.
   c. Click on **Scan/add new BUS devices** which will display a list of connected unenrolled devices. Double-click on the device you want to enroll – the JA-10E in this case.
   d. The keypad is now enrolled and the yellow LED indicator switches off.

Notes:
– *The keypad can also by enrolled by opening the enrollment mode (the Enroll button in the Devices tab of the N-Link SW) and pressing the keypad's cover or the tamper contact.*
– *Enrollment is also possible by entering its production code (9) in the N-Link software or using a bar code scanner. All numbers stated under the bar code must be entered (e.g. 1400-00-0000-0001).*

Installation of a magnetic contact

The keypad supports connection of a door detector. The IN input reacts to being disconnected from the GND contact. The control panel's reaction to an activated IN input is configurable in the N-Link SW.
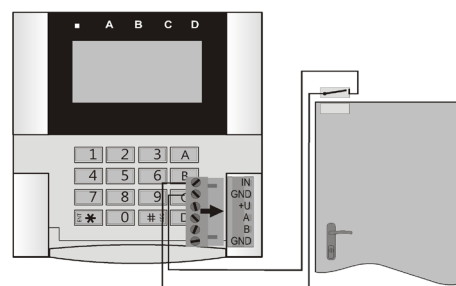

Figure 2: connecting a magnetic contact

Setting the properties

Go to the **Devices** window in the N-Link software. When you are at the keypad position, click on the **Internal settings** option which will display a dialogue window with all properties. Internal settings are separated into 2 basic tabs: **Function** and **Settings**.

Function tab:

Day and time – displays the current time in the top-right corner of the display

The system is not prepared to be Set – indicates an obstacle preventing setting the control panel.

User defined text – enables showing any text, for example the phone number of an installer company, etc.

Button function – On the left is a selection of button functions. On the right is a selection of Sections or PG outputs to which the functions will be assigned. A function button can be assigned with these functions: None, Unsetting/setting, Unsetting/Partially setting, Unsetting/Partially setting/Setting, Section indication, Panic, Fire, Audible panic, Medical Troubles, PG ON/OFF, PG ON, PG OFF, PG indication, PG indicates inversely, Common functional button

Authorization – Setting and Unsetting requires user authorization. When this parameter is disabled the function buttons can be operated without authorization, however this does not apply to Unsetting a section which always requires authorization. Both ON and OFF statuses of PG outputs can be configured to be operated with or without authorization

Sections controlled by authorization – selection of sections which can be controlled by authorization (using an RFID chip or a code)

PG Control – selection of PG outputs which can be controlled by authorization (using an RFID chip or a code)

Logo – the keypad can display a black and white picture of 128x64 pixels (such as a company logo etc.) which stays on the screen for 25 seconds after the last keypad operation.

Import – enables copying settings from other keypads of the same type which have already been enrolled. For example, this can be utilized when the building has multiple entrances and it is necessary for all keypads to have identical functions. In addition, this function can also be used when replacing a faulty keypad with another. The Import button provides the history of keypad settings on a position of a particular device.

Setting tab:

Acoustic indication of selected sections:
– **Higher volume** – Increased volume of indication (It does not apply to alarms).
– **Alarms** – Indicates alarms (sounds a siren).
– **Entrance delay** – continuous sound during the entrance delay
– **Exit delay** – slow beeping (1/sec)
– **Exit delay when partially set** – slow beeping (deactivated by default)
– **Button status change** – beeps once when a status is changed

Function:

Optical indication setting:
1. **Indicates permanently** – the keypad indicates permanently. When the mains electricity is disconnected it indicates the same way as option 3. When mains electricity is restored the keypad indicates permanently again.
2. **Section/PG status change on keypad** – The status change of a section/PG is indicated by a specific function button and a status indicator. Entrance delay and alarms are indicated by all function buttons and status indicators.
3. **Section/PG status change on button** – The keypad indicates after a change of the section/PG status, entrance delay and alarm only by a particular button and a section indicator.

4. **Button status change on keypad** – The keypad indicates after a change of the section/PG status by a particular button and a section indicator. Entrance delay and alarms are indicated acoustically only.

5. **Entrance delay/Alarms on button** – The keypad indicates entrance delays and alarms with a function button and a status indicator. Change of section/PG status is not indicated visually or acoustically.

6. **Wake-up by pressing** –The keypad starts to optically and acoustically indicate after the front cover has been opened and also when a key or a function button has been pressed.

RFID reader: In order to save energy we limit the RFID reader to function for 3 seconds after pressing the keypad cover. The reader can be also completely disabled. This setting applies to wireless keypads and access modules as long as they are supplied permanently by an external power supply, otherwise their RFID readers will always turn off automatically.

Permanently ON – the RFID reader is always active. A BUS keypad ignores wake up settings.

Activated by pressing – When the keypad is activated the RFID wakes up for 3 seconds.

Disabled – RFID is permanently disabled.

Activated by pressing or authorization requirement – the keypad wakes up after pressing a button on a keypad cover or by an authorization request, for example during the entrance delay.

Unset a section by authorization only during an entrance delay – using an access code or an RFID tag will unset a section where an entrance delay has been triggered (if the user has access to the section). This authorization can be used with wireless keypads only when they declare an entrance delay.

WARNING: This function is not recommended when the control panel is configured to use a Common section. Unwanted unsetting may occur to all sections assigned to the Common section or it may even occur to the whole control panel (when pressing the Unsetting button is followed by authorization).

Delayed panic – this function triggers a panic alarm (silent or loud) with an adjustable delay during which the alarm can be cancelled. Activation and deactivation is done by a function button configured to Panic or Silent panic functions. The button pressed once triggers the delay. Press twice to cancel the delay. When authorization is enabled then it is required for activation and deactivation. The delay is adjustable from 1 to 255 seconds.

Backlight intensity

- **Indicators** – backlight intensity of indicators
- **Functional buttons** – backlight intensity of the function buttons
- **Keypad** – backlight intensity of the keypad
- **Display** – backlight intensity of the LCD display
- **Contrast** – LCD display contrast

Acoustic indication for sections: list of allowed sections for acoustic indication.

⚠️ **A keypad configuration which complies with certification requirements must be selected from the list of System profiles in the Parameters tab of the N-Link SW.**

Optical indication

System indicator:

Continuous green light - Normal operation. Sections controlled by the keypad are OK, no faults.

Continuous yellow light - Normal operation, reported faults in some of the controlled sections. You can get more detailed information via the LCD keypad menu after user authorization depending on the user access rights.

If the optical indication is followed by a rotating Jablotron logo on the LCD keypad then it represents a radio communication fault between the control panel and the keypad

Continuous red light – The keypad is in BOOT mode, used while upgrading firmware.

Flashes green (2Hz) – Ongoing authorization during which the user can change the statuses of the function buttons or browse the keypad menu. Authorization times out after 8 seconds from the last time any of the buttons had been pressed or it can be cancelled by pressing ESC.

Flashes yellow (8Hz) - Unsuccessful setting warning indication

Flashes red (8Hz) - Indication of a currently triggered alarm in one of the sections controlled by the keypad. The type of alarm, name of the section where an alarm has been triggered and the source of the triggered alarm is visible on the LCD keypad

Flashes alternately red/yellow - Triggered alarm with an active fault

Flashes alternately green/red – Ongoing authorization with an alarm memory

Flashes alternately green/yellow – Ongoing authorization with an active fault

Flashes yellow 2x every 2 seconds - Programming / Service mode. All control button indication is disabled, function keys along with the keypad menu are unavailable for users and the Administrator. The keypad menu is only available for a service technician unless a PC is connected to the control panel.

Flashes red 2x every 2 seconds - Alarm memory indication

Flashes yellow 1x every 2 seconds - Fault indication on a keypad which is in sleep mode (only valid for the EN50131-1 profile)

Flashes red 1x every 2 seconds - Alarm memory indication on a keypad which is in sleep mode (only valid for the EN50131-1 profile)

No indication – The keypad is in sleep mode.

Function buttons and status indicators – the status of the function buttons is simultaneously indicated by the status indicators A, B, C, D

Continuous green light - Section status is Unset or a PG output is OFF.

Flashes green (4Hz) – Ongoing entrance delay and the system waits to be Unset by authorization.

Continuous yellow light - Section status is Partially set
Continuous red light - Section status is Set or a PG output is ON

Flashes yellow (4Hz) - System expects authorization when partially set or it reports a fault during partial setting.

Flashes yellow (8Hz) - Unsuccessful setting warning indication.

Flashes red (4Hz) – The control panel waits for authorization during setting or it reports a problem during setting

Flashes red (8Hz) - Alarm memory indication. It is indicated until it is cancelled

No light - Service mode or a blocked section after an alarm (after blocking and cancelling alarm memory indication)

Acoustic indication

It can be set regardless of the keypad's optical indication and sleep mode. The keypad can indicate entrance/exit delays or alarms. During valid authorization (by a user code or RFID card), the acoustic indication of exit delays is suppressed. By pressing the indication button, the keypad is muted permanently. Entrance delays and alarms are indicated until their times expire unless the activation button is pressed.

Technical specifications

Power	from control panel digital bus (9…15 V)
Nominal current consumption to calculate back up	30 mA
Current consumption for cable selection	110 mA
Connection type	data BUS – not shared
RFID frequency	125 kHz
Size	120 x 130 x 30 mm
Weight	217 g
Operating temperature range	-10 °C to +40 °C
Average operational humidity	75% RH
Operational environment according to EN	50131-1 II. Indoor general
Classification	Grade 2 (if selected in the N-Link SW)
according to	EN 50131-1, EN 50131-3,
Certification body	Trezor Test
Also complies with	ETSI EN 300330, EN 50130-4, EN 55022, EN 60950-1, ETSI EN 301 489
Can be operated according to	ERC REC 70-03

CE

JABLOTRON ALARMS a.s. hereby declares that the JA-10E is in a compliance with the relevant European Union harmonization legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assess-ment can be found at www.jablotron.com - Section Downloads.

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

UK CA