The JA-81E-RGB hard-wired keypad

The JA-81E is a component of Jablotron's OASiS alarm system and is designed to control and program the system. The display backlight colour can be set according to your needs. It has a built-in proximity access card reader and allows the wiring up of a separate door detector. The keypad should be wired to the control panel.

Installation

Installation shall only be undertaken by technicians holding a certificate issued by an authorized distributor. The keypad is for indoor installation only, typically by a main entrance door.

1. **Open the keypad housing** by pressing the tab on the bottom using a screwdriver. The tab is also accessible from the front after opening the key cover.
2. **Install the rear housing** to the desired location.
3. **Connect the control panel bus cable. There are two possibilities**:
   - Use a twisted-pair cable (+U and GND is one pair and data A and B is the second, length max. 100m) for final keypad installation. The correspondingly marked terminals in the keypad unit and in the control panel should be connected together (GND, A, B, +U).
   - Use a flat four-wire telephone cable with RJ connectors (max. 10 metres) but only for temporary (test) installation. There is a digital bus connector called LINE in the control panel, and in the keypad too. See fig. 1.
4. **Install the external door detector** (if required) and connect its cable to the IN and GND terminals. See fig. 2.
5. Keypad operating instructions are found in the control panel manual.

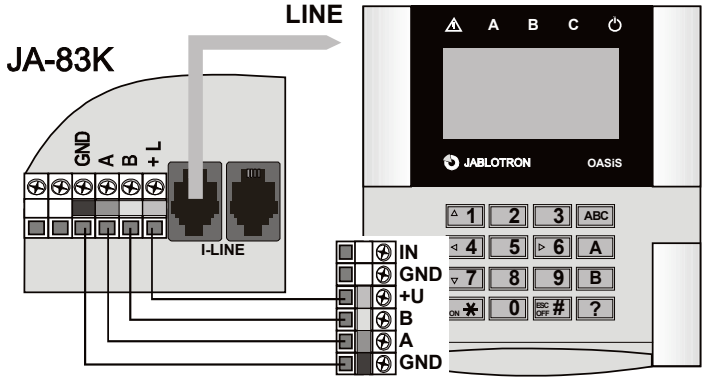

fig. 1 Connection with the control panel

Keypad menu

The menu can be entered in Service mode by holding the **?** key. Using the arrows on keys 1 and 7 you can scroll through the menu:

Display	Key	Description
Tamper ON	✱	Disable / Enable the tamper sensor (only for service purposes)
Door chime ON	✱	Disable / Enable sound when IN triggered
Beeper ON	✱	Disable / Enable system sounds
Backlight colour	◀ ▶	Sets the normal display backlight colour 0 - 7
Warning colour	◀ ▶	Sets the warning display backlight colour 0 - 7
Brightness	◀ ▶	Sets the display brightness 0 - 9
Contrast	◀ ▶	Sets the display contrast 0 - 9
Edit text	✱	Entry to keypads text editing
English	✱	Sets English (reload default texts)
Čeština	✱	other languages ...

To exit the menu, press **#** (exiting also occurs after 60 seconds' inactivity).

Notes:

- It is possible to set a different colour backlight as a warning colour for when a fault is indicated or after an alarm state (warning colour). The user can be visually informed of the status. If unwanted, please set both colours to the same value.
- The keypad power can be switched on by connecting the bus cable or by switching on the control panel power.
- Each keypad has its own menu, i.e. each keypad in the system can have its own unique settings.
- The keypad keeps its settings even if its power is disconnected (settings can only be altered via the keypad menu).

Three minute time-out of displaying the alarm status

To comply with EN standards the keypad does not indicate the status of the alarm system. Indication only returns when the keypad is operated or detector activated or an entrance delay is triggered. It is however possible to program permanent indication via the control panel, if considered appropriate.

Installing a door detector

It is possible to wire up a detector(s) to the keypad via the IN input. The IN input terminal is triggered when disconnected from GND. The control panel's natural reaction to the IN input being triggered is a delayed intruder alarm (unchangeable reaction).

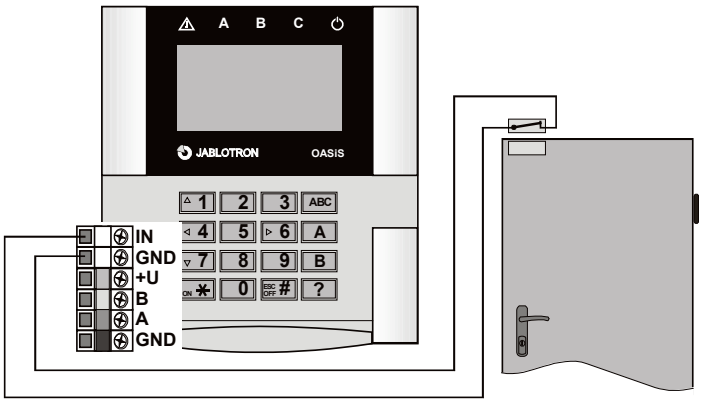

fig. 2 An example of door detector wiring

Notes:

If the IN input is not used, connect it to GND.

The IN input only reports to the control panel at the moment of being triggered (a so-called pulse reaction, which means that the keypad cannot signal permanently open doors). The input belongs to the C section (can not be changed) and if there is more than one JA-81E in the system their IN inputs are not distinguished by the system. The source of this event is the control panel itself.

Controlling the PgX output

The PgX output can be switched ON and OFF by pressing the ON (✱) and OFF (#) buttons long (for 5 seconds) . The function of PgX must be set in the control panel. A long beep confirms the change.

Keypad text editing

You can use a PC running Olink software to set up the texts (recommended). If you change texts in the system using Olink the change is made in all keypads, which are connected to the line at this time. If you add a new keypad to the system, you can transfer (synchronize) all the latest texts to the keypad by reading the texts from the control panel. (Olink reading the control panel texts triggers the keypad into listening in to the bus and copying the texts into itself).

The names can be edited via the keypad in the "Edit Text" menu item – see the control panel installation manual. The edited text is only stored in the keypad unit used for editing.

The texts can only be copied into the keypad but cannot be read out of it.

Technical specifications

Power	*via the control panel bus*
Standby consumption	*100 mA*
RFID cards	*Jablotron PC-01 or PC-02 (EM UNIQUE 125kHz)*
Length of digital bus cable	*max. 100m*
Door detector input	*IN = normally closed loop*
Dimensions	*120 x 130 x 30 mm*
Environment according to EN 50131-1	*II. internal*
Operating temperature range	*-10 to +40 °C*
EN 50131-1, EN 50131-3 classification	*class 2*
Comply with	*ETSI 300330, EN 50130-4, EN 55022, EN 60950-1*

JABLOTRON ALARMS a.s. hereby declares that the JA-81E-RGB is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the manufacturer after use.

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