The JA-80F wireless keypad

The JA-80F is a component of Jablotron's OASiS alarm system and is designed to control and program the system. It has a built-in proximity access card reader and allows the wiring up of a separate door detector. The battery-powered keypad communicates wirelessly using OASiS protocol.
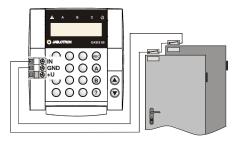
Installation

Installation shall only be undertaken by technicians holding a certificate issued by an authorized distributor. The keypad is for indoor installation only, typically by the main entrance door. Avoid locating it close to metal objects which could shield radio communication.

1. **Open the keypad housing** (by pressing the tab on the bottom) and disconnect the inter-housing connection cable inside (by pulling the connector from the board)
2. **Install the rear housing** to the desired location
3. **Install the external hard-wired detector** (if required) and route its cable through the rear housing
4. **Enroll the keypad to the control panel** (see the control panel installation manual) as follows:
   - Enter enrollment mode in the control panel (if the system does not have a keypad already, briefly short the reset link on the control panel main board, or if a keypad is present, then press key 1 in service mode).
   - Install the battery into the keypad to trigger enrollment.
   - Exit enrollment mode by pressing the **#** key.
5. **Connect the inter-housing cable** to the board. If a door detector and an external AC adaptor are used, then connect their cables too. Attach the keypad to the rear housing.
6. Instructions on how to use the keypad can be found in the control panel operating manual.

Installing a door detector

It is possible to wire up a detector(s) to the keypad. 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 linked to the keypad's address. If desired, another reaction can be programmed in the control panel. The IN input can indicate a door being permanently open (status reaction). If the IN input is never used then it must be shorted to GND.

Note: The lifetime of the battery is reduced proportionally to how frequently the door detector is triggered and how often and how long the keypad is battery-powered.

Keypad sleep mode

When battery-powered, the keypad saves energy by turning itself off when the cover is closed or automatically after 20 seconds of inactivity (15 minutes in service mode). **The keypad is woken up by**: opening the keypad's flip cover, pressing any key, or triggering the wired door detector.

Recommendation: install the keypad with the door detector wired to its IN terminal. The door detector will always turn the keypad on when the door is opened and the keypad can also indicate the entrance delay and be ready to read access cards. You will also save money on a wireless door detector.

Note: If the keypad unit is powered by an AC adaptor there is no sleep mode, but 3 minutes after setting the system, status indication stops. If desired, the system setting/unsetting status can be programmed in the control panel to be permanently indicate by the keypad.

Optional AC adapter

If the keypad is powered by an AC adapter (model: Jablotron DE01-12 for terminals: +U and GND), it will not turn off after 20 seconds of inactivity. If the adapter is used, batteries should still be installed. Only turn on the AC adapter after the keypad unit has been powered up by batteries and the two halves of the housing are back together.

Keypad menu – language selection and door bell function

If the ∗ key is kept pressed during battery connection the internal keypad menu will be displayed allowing the selection of the **desired language**. Using the arrows choose your language and confirm selection by the ∗ key.

In this menu the **door bell function** can also be enabled or disabled (if enabled the keypad makes a sound when its IN input is triggered).

Notes:
- The menu can be displayed even if the keypad has not been enrolled to the control panel.

- If you wish to display the menu on a keypad which already has its battery installed, disconnect and reconnect the batteries first.
- 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).

Testing keypad communication

In service mode, the control panel allows the keypad's radio signal to be checked, including signal strength measurement. To test the keypad signal, trigger either its IN input or its tamper sensor.

Note: the control panel measures the strength of the signal transmitted by the keypad. It is impossible to measure the signal strength received by the keypad from the control panel. If the keypad has lost communication with the control panel (e.g. if the control panel is damaged) it would display a communication error. If you re-power a control panel which previously worked with a keypad, and the keypad does not function, then we recommend disconnecting and re-connecting the keypad batteries.

Disabling the tamper sensor

To disable the tamper sensor, short out the jumper in the keypad unit close to the tamper sensor (equipped with a spring). This is useful when carrying the keypad unit around while servicing the system. During normal use of the system this jumper **must remain open circuited**.

Keypad text editing

There are two kinds of text: device and code names (displayed on the second line after the address number) and other system text.

The names can be edited via the keypad after pressing and holding the **?** key in service mode – see the control panel installation manual. The edited text is only stored in the keypad unit used for editing.

The most convenient way to edit text is to use a PC running **OLink software**. To transfer edited text from a PC to the keypad, the keypad (with its batteries installed) has to be connected to the OASiS system's digital bus (i.e. one cable from the keypad to the control panel, and another cable from the control panel to the PC). If there are multiple keypads, they can all be connected together (via the digital bus) while transferring edited text from the PC, or you can transfer text to each keypad, one at a time. We recommend using a digital bus splitter (model BS-84). OLink software also allows editing of the keypad's system text.

Battery replacement

The system checks the battery status and if discharged it will inform the end user or the installer. The keypad will continue to work but will also indicate a low battery. Batteries should be replaced within 2 weeks by a qualified technician in service mode.

Note: It is strongly recommended to change both batteries together and with identical types (manufacturer).

Do not put expired batteries in the garbage, but follow local regulations..

Removing the keypad from the system

If the keypad is removed from the system, the control panel indicates this event. If you want to uninstall the keypad, it must also be erased in the control panel.

Technical specifications

Power supply	*2x lithium batteries type CR123A (3.0V)*
Typical battery lifetime	*approx. 3 years (with a max.of 2 daily activations)*
Communication frequency	*868 MHz, OASiS protocol*
Communication range	*approx. 100m (open area)*
RFID cards	*Jablotron PC-01 or PC-02 (EM UNIQUE 125kHz)*
Door detector input	*IN = normally closed loop*
Dimensions	*113 x 121 x 63 mm*
Environment according to EN 50131-1	*II. internal*
Operating temperature range	*-10 to +40 °C*
EN 50131-1, CLC/TS 50131-3, EN 50131-5-3 classification	*class 2*
Can be operated according to	*ERC REC 70-03*

FCC ID VL6JA80F

CE Jablotron Ltd. hereby declares that the JA-80F is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC and complies with part 15 of the FCC rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications no expressly approved by Jablotron could void the user´s authority to operate the equipment. The original of the conformity assessment can be found at www.jablotron.com, Technical Support section.

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

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