JA-121E-WH / JA-121E-BK
Bus outdoor keypad with reader RFID/13,56 MHz

*This product is a component of the **JABLOTRON** system. The outdoor touch keypad contains 2 reading zones and allows simultaneous use of both 125 kHz (RFID) and 13.56 MHz (MIFARE® Classic) frequencies. The keypad can be used to control sections, activate the PG outputs for example to control access (door lock). The front side features a capacitive touch-sensing keypad and a system's status display. The product is intended for installation by a trained technician with a valid Jablotron certificate.*

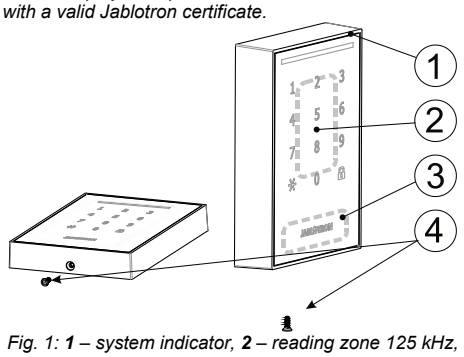


*Fig. 1: **1** – system indicator, **2** – reading zone 125 kHz, **3** – reading zone 13,56 MHz, **4** – locking screw*

Installation

1. Install the mounting pad with 2 screws in the prepared place.
2. Pull the cable from keypad through the hole in the mounting pad.
3. Align the keypad on the top edge of the mounting pad (Figure 2) and click it in.
4. Then secure the keypad with the locking screw (4).
5. Connect the bus cable to the bus terminals via a JA-110Z-x terminal module and a JA-19xPL installation box.

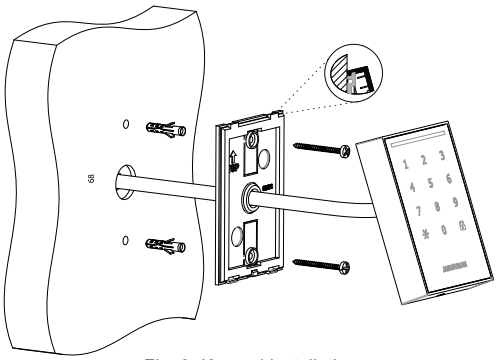


Fig. 2: Keypad installation

When connecting the module to the bus, always switch the power off.

6. Proceed according to the control panel installation manual.
   Basic procedure:
   a. When the keypad is switched on, the yellow LED (16) indicates that the keypad has not been enroled into the system.
   b. Go to the F-Link software, select the required position in the Devices tab and launch the enrolment mode by clicking on the Enrol option.
   c. Press the enrolment button

Notes:

- *Enroling can also be done by entering the serial number in F-Link. The number is stuck in the back of the PCB. All numbers are entered (serial number pattern: 1400-00-0000-0001).*
- *To remove the product from the system, delete it from the appropriate position in the control panel.*
- *IF the reader is located outside the secure area, use the JA-110T bus isolator.*
- *To mount the keypad on the KU68 installation box, use the WRE-KU68 WH (BK) adapter.*
- *To mount the keypad with the cable duct, use the WRE-SC-WH (BK) adapter.*

Setting the properties

Settings are located in the ***Devices*** tab – ***Internal settings.***

Button function **:**

The button can be assigned system with control functions (section control, indicate section status, emergency alarm, PG outputs control, indicate PG status) and serves to indicate status of the controlled section/PG.

Authorisation*:* authorisation is always required to control the section.

Button function*:* selection of the function for the button (control section / PG output control).

Unset section by authorisation only during entrance delay*:* in section in which the entrance delay is in progress authorisation disarms that section.

Action by the authorisation:

Entrance delay*:* valid authorisation will launch entrance delay countdown in the section to which the keypad is enroled if the section is set.

PG control*:* specifies which PG outputs will be controlled after a valid authorisation. PG selected in this way must have "Impulse" or "Change" parameter set (see PG ***Outputs / Functions*** settings).

Section control*:* Valid authorisation changes status of the set section.

Note*: If in the section is signals the cause of prevents setting (active detector, fault), the section will not set.*

Delayed panic*:* allows you to set the delay time of panic alarm after it has been activated on the keypad. A valid authorisation at the time of postponement cancels the activation of the panic alarm.

Acoustic signalling:

Alarm*:* acoustic indication is activated for alarms.

Entrance delay*:* acoustic indication is activated for entrance delay

Exit delay*:* acoustic indication is activated for exit delay when the section is fully set.

Status change*:* acoustic indication is activated for status change like *set/unset, on/off* according to the *„Optical indication"* function parameter

Card reader confirmation*:* acoustic indication is activated for card read confirmation.

Optical indication settings:

Permanent indication*:* keypad is permanently indicated status.

Change of status*:* optical indication is activated by every change in the system on the keypad. Optical indication is visible for 8 sec.

After a valid authorisation*:* optical indication by the keypad after a valid authorisation for 8 sec and can perform an action which is set in „Authorisation action" parameter.

After a valid authorisation according to EN50131-1*:* optical indication by the keypad after a valid authorisation for 4 sec and also can perform an action which is set in „Authorisation action" parameter.

Indication in sections:

Selection of sections for which the keypad will indicated according to the setting "Acoustic signalling"

Setting of backlight and volume intensity:

Allow to set intensity of the optical and acoustical indication.

Settings in control panels like JA-103K and JA-107K is split to DAY / NIGHT mode.

Card reader:

Allows to set the card reader option according to the technology used – RFID / NFC (MIFARE®). In case of using combined cards, the preferred technology can be set.

Technical specifications

Type of control device	*B*
Power	*from control panel digital bus (8…15 V)*
Current consumption in standby mode	*35 mA*
Current consumption for cable selection	*105 mA*
IP cover conformance	*IP55*
Mechanical strength according to EN 50102	*IK07*
RFID frequency	*125 kHz*
Maximum RFID magnetic field strength	*-16.1 dBµA/m*
MIFARE® frequency	*13,56 MHz*
Maximum MIFARE® magnetic field strength	*-2,3 dBuA/m*
RFID cards	*JABLOTRON 100*
MIFARE® cards	*MIFARE® Classic*
Dimensions	*96 x 67 x 19 mm*
Weight	*170 g*
Cable length	*2.0 m*
Operating temperature range	*-25 °C to +70 °C*
Average operational humidity	*5 to 95 % RH, w/o condensation*
Operational environment	*EN 50131-1 IV. Outdoor general*
Classification	*security grade 2 / environmental class IV*
Certification body	*Trezor Test s.r.o. (nr. 3025), Telefication B.V.*
	EN-50131-1, EN-50131-3
In compliance with:	*ETSI EN 300330, EN 50130-4, EN 55022, EN 60950-1*
Can be operated according to	*ERC REC 70-03*
Recommended screw	*2x ø 3.5 mm (half-round head)*

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The manufacturer TECH FASS ltd. declares, that the product JA-121E-WH/JA-121E-BK follows legal requirements and fulfils necessary European directives 2014/53/EU, 2011/65/EU. The declaration of conformity document can be downloaded from web site www.techfass.com

https://techfass.com/en/download/11/conformity-declaration

According to WEEE directive (2021/19/EU), this product cannot be disposed of as unsorted municipal domestic waste and must be returned to recycling centre after its lifetime is over.

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