JA-151E – Wireless tag reader for section control

type: 5READER2403OS

*The product is a wireless component of the **JABLOTRON** systems. It is used for easy setting and unsetting of one section based on PIT authorization and pushing the button on the product. **This product is compatible with JA-103K, JA-107K, JA-102K, JA-152KRY, JA-151KRY.** The reader should be installed by a trained technician with a valid certificate issued by an authorised distributor.*

Installation

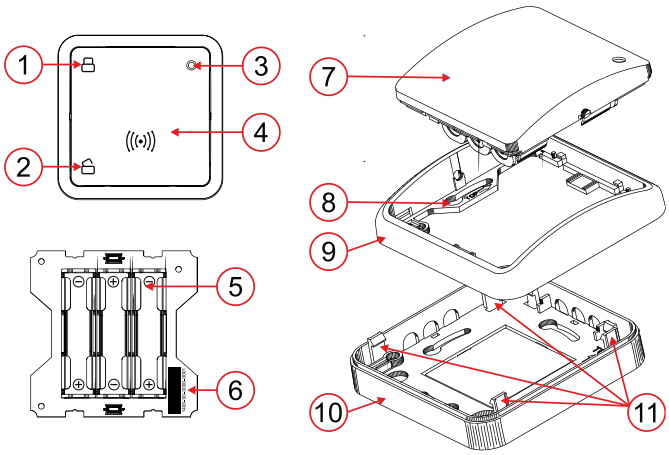

*Figure 1: Description of the internal and external parts of the product: **1** – button A (setting); **2** – button B (unsetting); **3** – LED; **4** – NFC reader; **5** – battery holder; **6** – serial number; **7** – top cover; **8** – holes for wall installation; **9** – middle frame; **10** – rear plastic part; **11** – rear cover latches*

1. Choose a suitable location near the front door inside the building.
2. Remove the middle frame with top cover of the product (not necessary to divide) using rear cover latches (11) and screw the rear plastic part (10) to the chosen location on the wall.
3. Insert the batteries into the battery holder (5), making sure the batteries are in the correct polarity. Put the middle frame with top cover back to rear plastic part and close the product.

Basic procedure for JA-100+:

a. When the batteries are inserted, the yellow LED indicates by a steady light that the module is not assigned to the system
b. Select the required position in the F-link program in the Devices tab and select Assign to turn on the learning mode.
c. It is also possible to assign a reader to the system by manually entering the SN (6) into the program.

Basic procedure for Mercury and SIDUS:

a. When the batteries are inserted, the yellow LED indicates by a steady light that the module is not assigned to the system
b. Click on Device Registration in MyCompany app, a window will appear to scan the barcode or you can enter the SN (6) manually.

***Note**: Wall mounting is also possible with the middle frame when installed with the KU-68 box.*

Settings properties

It is performer with the ***F-link*** program – ***Devices*** tab. Use the ***Internal settings*** at the reader position and click on ***Enter***, where the following parameters can be set.

Controls section – in the drop-down list you can select the sections thet the reader can control.

Parameters selection using check boxes:

Authorization required

Authorization disarms section on entry

If an entry delay is in progress then the authorization on the NFC will disarm the section. Either after waking up or if the "***NFC reader active during arrival delay***" function is active without waking up.

Authorization disarms section during alarm

If an alarm is in progress, the authorization on the NFC will disarm the section. Either after waking up or if the function "***NFC reader always active during alarm***" is activated. without waking up.

NFC reader active during entry delay

The NFC reader will be constantly active during the arrival delay. There will be a significant increase in consumption and the declared battery life will not be met.

NFC reader active on alarm

The NFC reader will be constantly active during an alarm. There will be a significant increase in power consumption and the declared battery life will not be met.

Button function

The button function combination options can be selected from the drop-down list as follows.

- Unlock / Arm
- Unlock / partially arm
- Unlock / Partially arm / Arm

Acoustic indication

The acoustic indication is set by ticking check boxes for the following options.

Acoustic signalization on button press
Acoustic signalization on section state change
Acoustic signalization of authorization
Acoustic signalization of entry delay
Acoustic signalization of exit delay – selection from drop-down list
No / When fully armed / Always
Alarm acoustic signalization – selection from drop-down list
OFF / According to intensity setting / Always fully
Volume in day – 4 options of volume intensity – drop down list
OFF / Low / Middle / High
Volume at night – 4 options of volume intensity – drop down list
OFF / Low / Middle / High
Acoustic signalization of system states according to their priorities:

1. **Confirmation of action execution** – short higher tone 1.2 kHz.
2. **Action rejection** – short lower tone 400 Hz.
3. **NFC card / pit detection** – 1x short beep 2 kHz.
4. **Valid authorization** – 1x beep short higher tone 3.2 kHz.
5. **Invalid authorization** – 1x short lower tone 400 Hz.
6. **Alarm** – long drawn tone of 3 kHz for the duration of the alarm.
7. **Entry Delay** – an uninterrupted 1.25 kHz tone for the duration of the entry time.
8. **Exit delay** - beeps at 1.25 kHz for the duration of the departure delay.
9. **Change of section status** – 1x beep with 2 kHz tone.

Optical indication

Intensity in day – drop-down list – Minimal / Low / Medium / High
Intensity at night – drop-down list – Minimal / Low / Medium / High

Status	Optical indication
Non-enrol device	Yellow glow
Loss of communication	Yellow glow after pressing
Enter the internal settings	Yellow glow in the enrol state
Service	Yellow double flash
Maintenance	Green double flash
Alarm memory	Red double flash
Full armed default	Red slow flashing
Partially armed default	Yellow slow flashing
Disarmed default	Green slow flashing
Alarm	Red fast flashing
Failure of arming	Yellow fast flashing
Armed	Red glow
Partially armed	Yellow glow
Disarmed	Green glow

Table 1: Optical indication for individual states

Replacing batteries

The module automatically checks the status of the batteries and informs the system of the need for replacement when they are about to run out. The batteries should be replaced within 2 weeks of the low battery alert. Before releasing the product from installation and the actual battery replacement, the system must be switched to SERVICE mode (otherwise a tamper alarm will be raised).

***Note**: For proper operation of the product, we recommend using batteries supplied by the Jablotron distribution network or other quality branded alkaline batteries.*

Technical parameters

Power	*3x Alkaline battery, type LR03 (AAA) 1.5 V / 1.2 Ah*
	Note: Batteries are not included.
Typical battery lifetime	*cca 1 year (1 activation per day)*
Low battery voltage	*<3,75 V*
Quiescent current consumption	*94 µA*
Maximal current consumption	*100 mA*
Communication frequency	*868.1 MHz, JABLOTRON protocol*
Maximum radiofrequency power (ERP)	*<25 mW*
RF range	*300 m (open area)*
NFC frequency	*13,56 MHz*
Maximum NFC magnetic field strength	*-10dBµA/m in 10m*
Dimensions	*81 x 81 x 39 mm*
Weight (w/o batteries)	*64 g*
Operating temperature range	*-10 °C to +40 °C*
Average operating humidity	*75 % RH, w/o condensation*
In compliance with	*EN 55032, EN 50130-4, EN IEC 62368-1, ETSI EN 300 330, EN 300 220-1,- 2, EN IEC 63000, EN 62311*
Operating conditions according	*ERC REC 70-03*
Recommended screw	*2x ø 3,5 x 40 mm (half-rounded head)*

JABLOTRON a.s. hereby declares that the 5READER2403OS product is in a compliance with the relevant Union harmonisation legislation: Directives No.: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU if it is used as intended. The original of the conformity assessment 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

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