The JA-111A RB BUS external siren

The JA-111A RB is a device of the **JABLOTRON** system. It is used for system alarm indication outside a building and for supplementary acoustic signalling. It can also be used as a pre-sensing tamper detector. The siren is equipped with a backup battery in case the connection to the BUS is severed. The siren takes one position in the system and it should be installed by a trained technician with a valid certificate issued by an authorized distributor

The **JA-111A RB** is completed by assembling two parts: the base with a **JA-111A-BASE-RB** PCB and one of the optional covers of the **JA-1X1A-C-xx.x** series. The covers are supplied in a colour combination of the cover itself and the flasher. <u>The base cannot be used on its own, it must always be combined with one of the covers.</u>

For combinations of colour and cover material, see the following table:

Cover type	Colour and material	Flasher colour
JA-1X1A-C-GR	Grey plastic	Red
JA-1X1A-C-ST	Stainless steel sheet	
JA-1X1A-C-WH	White plastic	
JA-1x1A-C-AN	Anthracite plastic	
JA-1X1A-C-GR-B	Grey plastic	Blue
JA-1X1A-C-ST-B	Stainless steel sheet	
JA-1X1A-C-WH-B	White plastic	
JA-1x1A-C-AN-B	Anthracite plastic	

Installation

The siren should be installed on a vertical wall, with the flasher facing downwards. Avoid installing the siren near gutters and at other places where there is a danger of ice accumulation
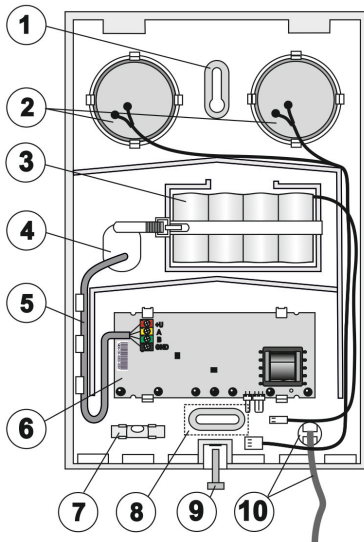

Figure: 1 – mounting hole; 2 – piezo sirens; 3 – NiCd battery; 4 – hole for cable; 5 – BUS cable; 6 – PCB; 7 – spirit level; 8 – mounting hole with tamper detection; 9 – front cover screw; 10 – string with clip connecting the front cover (easily detachable by pressing the clip)

1. Push the BUS cable (5) through the hole (4) and secure it using the plastic tabs
2. Attach the siren onto a suitable place using 2 screws through the holes (1, 8). For easy vertical positioning you can use the spirit level (7).
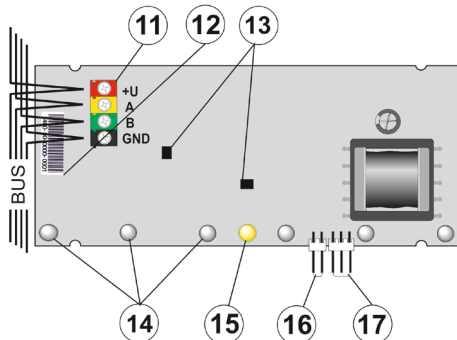

Figure: 11 – BUS connection terminals; 12 – production number; 13 – tamper sensors; 14 – high intensity LED flashers; 15 – system yellow indicator; 16 – battery connector; 17 – piezo siren connector (Caution: high voltage)

⚠ **When connecting the siren to the system BUS, always switch the system power off.**

3. Connect the BUS cable to the terminals (11).
4. Connect the backup battery to the connector (16).
5. When the siren is switched on, the yellow LED (15) indicates the siren has not been enrolled into the system. In some cases, the indication can be delayed for up to 60s from the startup of the system.
6. **Follow the instructions stated in the control panel installation manual**. Basic procedure:
   a. Open the F-Link software, select an unused position in the **Devices** tab and click on the *Enroll* button to enter the *Enrollment* mode.
   b. Click on the option "*Scan/add new BUS devices*", select this siren from the offered list and double-click to confirm selection. The yellow LED indicator goes off.
7. Check the connection of the piezo sirens (2) into the PCB connector (17) – or connect them.
8. Connect the string of the cover with the clip (10) to the base, put back the siren cover and attach it with the screw (9).

Notes:

- The siren can also be enrolled into the system by entering its production code in the F-Link software. You can find the production code on the sticker next to the BUS terminals (12). All numbers under the bar code must be entered (1400-00-0000-0001).
- If you want to remove the device from the system, erase it from its position in the F-Link software

Property settings

Open the **F-Link** software, go to the **Devices** tab. Click on the **Internal settings** button at the siren's position to open a dialogue window where you can set the following options: (* indicates default settings).

The Settings tab:

Acoustic indication of an intrusion alarm from sections: The selection of sections which should indicate an intrusion alarm via the siren. The default setting is the indication of an intrusion from all sections.

Reaction: Determines whether the siren should indicate **IW** (internal warning) or **EW*** (external warning) signals. Alarm indication with this siren can also be completely disabled (other functions remain active).

Siren sound: **Intermittent*, Continuous**

Maximum siren time: **1, 2, 3*, 4, 5 minutes** and **OFF** – If the OFF option is selected then the acoustic indication corresponds to the **Alarm length** parameter in the *F-Link* **Parameters** tab.

Different fire alarm indication: **YES / NO*** – Determines whether the siren will differentiate between acoustic indications of fire and standard alarms. The indication of an acoustic fire alarm is identical to smoke detectors with internal sirens – fast beeping.

Other acoustic indication from sections: Selection determines which sections will indicate other types of alarm via the siren. The indication for all sections is enabled by default.

Increased volume: **YES / NO*** – Applies only to other acoustic indication and the acoustic indication of PG outputs. It has no influence on the volume of alarm indication.

When controlled by a section: **YES / NO*** – If enabled, the siren beeps 1x after setting, 2x after unsetting and 3x times when unsetting after an alarm.

During warning: **YES / NO*** – If enabled, the siren reacts with three beeps to an inability to set the system, to unsuccessful setting and to unsetting with an active alarm memory

Entry delay: **YES / NO*** – If enabled, the siren indicates the entrance delay with the length set in the system parameters.

Exit delay when partially set: **YES / NO*** – If enabled, the siren indicates the exit delay with the length set in the system parameters when partially set. This option is available only when the entrance delay of fully set sections is enabled.

Exit delay when fully set: **YES / NO*** – If enabled, the siren indicates the exit delay with the length set in the system parameters when fully set.

Optical indication:

Flashes every: **10, 20, 30*, …, 120 seconds** and **OFF** – Selection sets an optical indication with a 10 – 120s time interval, adjustable in 10s steps. It can serve as a warning that there is a functional security system in the building.

During a warning: **YES / NO*** – If enabled, the siren reacts with three flashes to:

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1) An inability to set the system (there is a condition in the system preventing the setting, e.g. fault or an active detector).

2) An unsuccessful setting (during an exit delay an event occurs that causes the exit to fail, e.g. detector activation).

3) An unsetting with an active alarm memory (there was an alarm in the system)

When controlled by a section: **YES / NO*** – If enabled, the siren flashes when setting and unsetting a section. Flashes 1x after setting, 2x after unsetting and 3x times when unsetting after an alarm.

LED indication: **Red* / Blue** – The siren is equipped with bi-colour LED indicators. Depending on the colour of the flasher of the purchased cover, it is necessary to select the same colour for the signals.

Flashing during an alarm: **During an alarm* / until an alarm memory is erased / 30 minutes after an alarm.** Generally, the length of indication corresponds to the **Alarm length** parameter in the *F-Link Parameters* tab. There may be cases where it is necessary to have an optical indication when the alarm has already expired, e.g. for a better orientation of the ARC's emergency vehicle.

The Signalling PG tab:

LED indicates sounding PG output: If enabled, an acoustic indication triggered by an active PG output is continuously indicated by the LED

Acoustic indication can be set for each PG output:

Slow beeping – Beeps 1x per second (as long as the PG output is active).

Quick beeping – Beeps 2x per second (as long as the PG output is active).

1x ON/2x OFF – Beeps 1x when the PG is activated, beeps 2x when the PG is deactivated.

20 sec of beeping – Beeps continuously for 20 secs when the PG output is activated.

Sound priorities:

The siren sound has the highest priority, the control beeps have a lower priority and the PG output activity indication has the lowest priority (PG1 has a higher priority than PG2 etc). The beep with a higher priority always terminates the beep with a lower priority

Loss of communication with the control panel:

If the mains power supply wire is severed or there is a loss of communication with the central panel, the siren keeps sounding and flashing for 3 minutes (this function does not work in Service mode). If the system mains power supply is disconnected (due to a long-lasting power failure and a discharged control panel battery) then the siren does not sound or flash

Battery replacement

The system reports a low battery automatically. The control panel must be in Service mode before changing the battery, otherwise a tamper alarm will be triggered. Only use a **BAT-4V8** battery.

Technical specifications

Power	from control panel BUS 12 V (9…15 V)
Current consumption in standby mode	5 mA
Current consumption for cable choice	50 mA
Backup battery	NiCd pack 4.8 V/1800 mAh
	lifetime approx. 3 years
- minimum loaded voltage	4.0 V
- maximum voltage	6.0 V
	reusable battery strap
Piezoelectric siren	110 dB/m (with fully charged battery)
Dimensions (with cover)	200 x 300 x 70 mm
Classification	Security grade 2
according to	EN 50131-1, EN 50131-4
Environment class IV.	general outdoor -25 °C to +60 °C
Security grade	IP44
Also complies with	EN 50130-4, EN 55022,
	EN 60950-1, EN 50581

JABLOTRON ALARMS a.s. hereby declares that the JA-111A RB is in compliance with the relevant European Union harmonisation legislation: Directives No: 2014/35/EU, 2014/30/EU, 2011/65/EU, when used as intended. The original of the conformity assessment can be found at www.jablotron.com – the Downloads Section.

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.