

JA-150TX - The universal wireless transmitter module

The JA-150TX universal wireless transmission module is a component of the **JABLOTRON** series working within the 868 MHz communication band. It is intended to be installed inside 3rd party detectors (Optex, Optea, Duevi, etc.) and allows their integration with JABLOTRON 100. The module should be installed by a trained technician with a valid certificate issued by an authorised distributor.

Module installation

Place the module inside the detector and connect it according to the description. The module may be supplied only by the battery inserted in the battery holder located on the module. **Use the CR123A (3.0 V/1.4 Ah) lithium battery.** The correct position of the batteries is indicated on the battery holder.

Description of the terminals:

+U, GND	Input terminals used to supply a connected detector.
LoB	External low bat – system reaction – Low battery (status)
AUX	Fault/Antimasking – DIP switch selection no.3
COM	Common contact – for input terminals TMP and INP
TMP	Protection contact – system reaction – Tamper (status)
INP	Alarm – system reaction – Alarm (status)



The +U and GND terminals work as a power supply output for a detector! They are connected to the battery holder. Do not connect any other device to these terminals, it may damage the transmitter module.

Notes:

- The maximum cable length between a detector and the transmitter inputs should not exceed 3 metres.

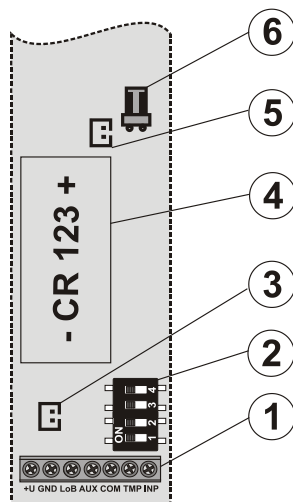


Figure 2: Radio transmitter: 1 – terminals; 2 – DIP switch used for setting functions; 3 – pins used to enable external tamper sensor; 4 – battery holder; 5 – pins used to enable external antenna; 6 – external antenna connector

Enrollment to the system

- Open the **F-Link** software, select a required position in the **Devices** window and launch the enrolment mode by clicking on the **Enroll** button.
- Insert the battery (mind the correct polarity). When the battery is inserted into the battery holder an enrolment signal is transmitted to the control panel and the detector enrolls to the selected position.

Notes:

- There must be a radio module JA-11xR installed in the control panel
- The transmitter module 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, placed onto the PCB. All numbers under the bar code shall be entered (1400-00-0000-0001).
- If needed the transmitter can be equipped with an AN-868 (2PIN) external antenna connected to the antenna connector (6.).

Settings

Factory settings highlighted by **bold** letters.

N.C.		N.O.
Status (INP)		Pulse (INP)
AUX = Fault		AUX=antimasking
		Unused

Checking the battery and its replacement

The detector checks the battery status automatically. Nearly drained battery is reported by the continuously flashing yellow LED indicator on the transmitter (1 flash per sec) and at the same time low battery status is reported to the control panel. The detector remains fully functional. The battery should be changed as soon as possible.

The control panel must be in service mode **before changing the battery** (see the control panel installation manual). The tamper contact must be pressed several times after opening the cover and removing the battery to discharge remaining energy.

Use the CR123A (3 V, 1.4 Ah) lithium battery only.

Note:

- If you insert a nearly drained battery into the detector by mistake, the sensor will not start working. This status is indicated with the transmitter LED flashing. If the battery is completely drained, the detector does not react at all.

Technical specifications

Power	1x Lithium battery, type CR123A (3.0 V/1.4 Ah)
	Please note: Battery is not included
Current consumption (nominal/maximal)	30 µA/53 mA
Average battery lifetime	approx. 3 years (120 s saving mode)
RF range – distance from the CP	up to 300 m (open area)
Communication band	868.1 MHz, JABLOTRON protocol
Classification	security grade 2
According to	EN 50131-1, EN 50131-3, EN50131-5-3
Operational environment	II. Indoor general (according to EN 50131-1)
Operating temperature range	-10 °C to +40 °C
Also complies with	ETSI EN 300 220-1, 2, EN 50130-4, EN 55032, EN 62368-1, ERC REC 70-03
Can be operated according to	
Certification body	Trezor Test s.r.o.



JABLOTRON ALARMS a.s. hereby declares that the JA-150TX is in a compliance with the relevant European 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 – 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.