JA-150TX-UNI Wireless universal transmitter

*The JA-150TX-UNI wireless universal transmitter is a component of the **JABLOTRON**. It is intended to be installed inside 3rd party detectors (Optex, Optea, Duevi, etc.) and allows their integration with JABLOTRON system. The transmitter should be installed by a trained technician with a valid certificate issued by an authorised distributor.*

Compatibility with specific control panels can be verified using the QR code at the end of the manual.

Installation

Place the module in the detector and connect it as described. The transmitter can be powered by a battery inserted in the JA-BAT-UNI (supplied separately) battery holder or via the VIN and GND terminals of the terminal block. The correct polarity is marked on the holder or on the terminals. The way of powering must be set by the switch (6) on the transmitter (BAT or UIN position).

Description of the terminals:

UOUT	Output terminal used for powering a connected detector
UIN	Input terminal used for powering the transmitter
GND	Common ground
TMP	Terminal for a tamper contact connection – **Tamper** (status reaction)
AUX	Terminal for signal connection – **Fault** / Antimasking (status reaction)
GND	Common ground
LBAT	Terminal for low battery signal connection – **Low battery** (status reaction)
IN	Input for alarm signal – **Alarm** (status / pulse reaction)

The UIN 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.

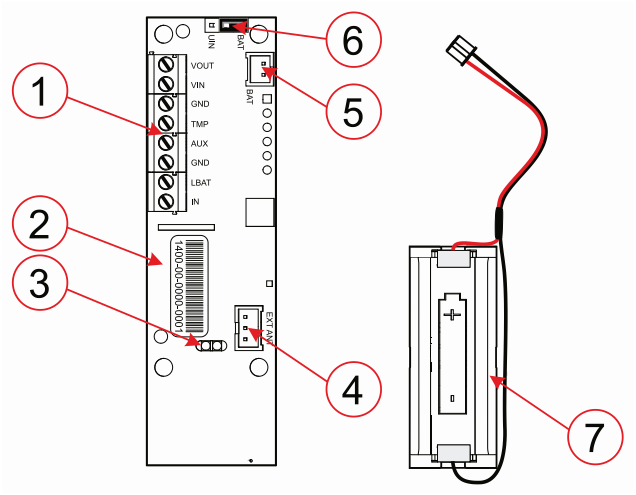

***Figure 1: 1** – terminals; **2** – serial number; **3** – Red and yellow LED indicators; **4** – external antenna connector; **5** – connector for JA-BAT-UNI; **6** – power supply switch, **7** – battery holder JA-BAT-UNI*

Enrolment to the system

Proceed according to the control panel installation manual.

Basic procedure:

a. The control panel must contain already enrolled JA-11xR radio module.

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. By inserting the batteries into the JA-BAT-UNI holder (7) or connecting an external power supply, the enrolment signal is sent to the control panel and taught to the selected position.

Notes:

- *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 (2), placed onto the PCB. All numbers under the bar code shall be entered (1400-00-0000-0001).*
- *If needed the transmitter can be equipped by an AN-868 (3PIN) external antenna connected to the antenna connector (4.). Tearing off the antenna = sabotage.*
- *The maximum cable length between a detector and the transmitter inputs should not exceed 3 meters.*
- *Red LED indicates activation of inputs in service mode.*

Internal settings

Factory settings highlighted by star symbol. The inputs respond to the connection (N.O.) / disconnection (N.C.) of GND.

INP
- *N.C. activation* / N.O. activation | pulse* | status response*

TMP
- *N.C. activation* / N.O. activation / OFF | status response*

LBAT
- *N.C. activation / N.O. activation / OFF* | status response*

AUX
- *Fault N.C. / Fault N.O. / Masking N.C. / Masking N.O. / Off* | status response*

Checking the battery and its replacement

The detector automatically checks the battery level in the JA-BAT-UNI holder. If the battery is about to run out, it reports this status to the control panel. The detector remains fully functional. The battery should be replaced as soon as possible.

Before replacing the battery, the control panel must be in service mode (see the control panel installation manual). After opening the cover and removing the battery from the holder, the remaining energy in the detector circuits must be discharged (for example, by pressing the detector tamper contact). Do not throw used batteries in the garbage but take them to a collection point.

If the detector is powered from an external source via the VIN and GND terminals, a low battery condition can be reported using the LBAT terminal if the detector can evaluate such a condition.

***Note:** If you insert a nearly drained battery into the detector by mistake, the detector will not start working. This status is indicated by the flashing of the orange transmitter LED (3). 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) when using JA-BAT-UNI or 3–10 V DC connected to the VIN/VOUT and GND terminals*
Low battery voltage in JA-BAT-UNI battery holder	*<2.4 V*
Quiescent current consumption	*24 µA*
Maximal current consumption	*50 mA*
Maximum radio-frequency power (ERP)	*25 mW*
Typical lifetime of battery	*approx. 2 years*
RF range – distance from the CP	*up to 300 m (open area)*
Communication band	*868.1 MHz, JABLOTRON protocol*
Operational environment	*II. indoor general (according to EN 50131-1)*
Classification	*Security grade 2 (* installation in detectors meeting same security grade)*
Weight (without battery)	*11 g*
Battery holder weight	*5.6 g*
Average operating humidity	*75 % RH, non-condensation*
Dimensions	*80 x 22 x 12 mm*
Operating temperature range	*-10 °C to +40 °C*
Complies with	*ETSI 300 220-1, -2, EN 50131-1, -3, -5-3, -6, EN 50130-4, EN IEC 63000, EN 55032, EN IEC 62368-1*
Can be operated according to	*ERC REC 70-03*
Certification body	*Trezor Test s.r.o. (no. 3025)*

JABLOTRON a.s. hereby declares that the JA-150TX-UNI 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.

QR code compatibility

JABLOTRON a.s.
Pod Skalkou 4567/33 | 46601 | Jablonec n. Nisou
Czech Republic | www.jablotron.com