JA-150TX-UNI Wireless universal transmitter

Type: 5TRXUNI2201MY

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.

This device is compatible with JA-102K, JA-103K, JA-107K, control panel units and upper models.

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 – $\ensuremath{\textbf{Tamper}}$ (status reaction)			
AUX	Terminal for signal connection – $\ensuremath{\textit{Fault}}$ / Antimasking (status reaction)			
GND	Common ground			
LBAT	Terminal for low battery signal connection – $\ensuremath{\text{Low battery}}$ (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

Enrollment to the system

Proceed according to the control panel installation manual. Basic procedure:

- The control panel must contain already enroled JA-11xR radio module.
- b. Go to the *F-Link* software, select the required position in the *Devices* tab and launch the enrollment mode by clicking on the *Enroll* 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.

<u>Note</u>: 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 batt	ery, type (CR123A (3.0 V / 1.4	4 Ah) when using
		JA	A-BAT-UNI or 3–10	V DC connected
		t	o the VIN/VOUT an	d GND terminals
Low batte	ery 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 li	fetime of battery		,	approx. 2 years
RF range	e – distance from	the CP	up to 30	0 m (open area)
Commun	nication band		868.1 MHz, JABL	OTRON protocol
Operatio	nal environment	II. indoo	r general (according	g to EN 50131-1)
Classifica	ation			Security grade 2
	(* installa	tion in de	tectors meeting san	ne security level)
Weight (v	without battery)			11 g
Battery h	older weight			5.6 g
Average	operating humidi	ty	75% RH, v	v/o condensation
Dimensio	ons			80 x 22 x 12 mm
Operating	g temperature ra	nge		-10 °C to +40 °C
Complies	s with	ETSI 300	220-1, -2, EN 501	31-1, -3, -5-3, -6,
	EN 50130-	4, EN IEC	63000, EN 55032,	EN IEC 62368-1
Can be o	perated accordin	ig to		ERC REC 70-03
Certificat	tion body		Trezor Test	s.r.o. (no. 3025)
			raby declares that the	ETDVI INI 2204MV



JABLOTRON a.s. hereby declares that the 5TRXUNI2201MY 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.



JABLUTRON