

JA-151N Wireless signal output module PG

The JA-151N is a wireless component of the **JABLOTRON** system. It provides an output relay switch. It can be used for switching a door lock, blocking, signalling etc. The relay can be controlled with a programmable control panel (PG) output or according to the status of a section (armed = relay on) or when there is an alarm in a chosen section (alarm = relay on). The device should be installed by a trained technician with a valid certificate issued by an authorised distributor. **This product is compatible with JA-101K, JA-102K, JA-103K, JA-107K and JA-152KR control panels.**

Installation

The module can be easily installed into a JA-190PL mounting box. For proper module functioning it is necessary to have a JA-110R radio module installed in the system.

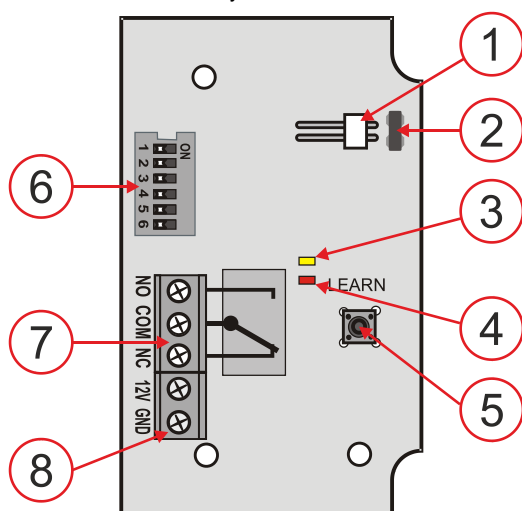


Figure: 1 – connector for external antenna; 2 – antenna jumper; 3 – yellow enrolment mode indicator; 4 – red relay switching indicator; 5 – enrolment button; 6 – configuration DIP switch; 7 – relay terminals; 8 – power terminals

- 1 Use the switch (6) to set the required PG output or the section to which the relay should react (see tables).
- 2 Connect the power cable to the terminals (8); turn the power on.
- 3 The yellow LED (3) starts to light permanently. Briefly press the button (5) to open the enrolment mode and the LED starts to flash. In the F-Link software at **F-Link – Settings – Devices** press the **Send enrolment signal** button. The module will confirm enrolling by a 2 sec. flash. If the module does not receive an enrolment signal in 120 sec., it closes enrolment mode (LED is lit) and waits for enrolment mode to be opened again.
- 4 Test the module's functioning. Relay switching is indicated by the red LED (4).
- 5 Connect the device to be controlled to the input terminals (7) when the power is not connected.

Notes:

- The module does not occupy any position in control panel.
- It is possible to enrol only one control panel to the module.
- If you connect multiple modules with identical settings to the system bus, the relays will have the same function.
- The relay switches to standby mode when it loses AC or communication is lost for 2 hours. After AC or communication restoration the module will switch to the requested mode in 8 sec.
- You can connect an external antenna via a connector (1) on the PCB. When an external antenna is used, the antenna jumper (2) has to be taken out. Recommended types of antennas are: AN-80, AN-81.
- We recommend you to use a DE-06-12 adapter for mains powering.
- You can erase an enrolled control panel by pressing and holding the button (5) for 6 sec. Erasing is confirmed by 6 x quick flashes of the LED (3). Then the LED starts flashing and the module opens enrolment mode.
- The setting of individual programmable outputs is done in the PG outputs tab in the F-Link software. A detailed description of the settings is available in the control panel installation manual.
- When the output is set according to the SECTION SET table the relay is on if the section is fully set.
- When the output is set according to the SECTION ALARM table the relay is on if there is an external or internal warning (EW or IW).

ON 1 2 3 4 5 6	PG 1	ON 1 2 3 4 5 6	PG 9	ON 1 2 3 4 5 6	PG 17	ON 1 2 3 4 5 6	PG 25
ON 1 2 3 4 5 6	PG 2	ON 1 2 3 4 5 6	PG 10	ON 1 2 3 4 5 6	PG 18	ON 1 2 3 4 5 6	PG 26
ON 1 2 3 4 5 6	PG 3	ON 1 2 3 4 5 6	PG 11	ON 1 2 3 4 5 6	PG 19	ON 1 2 3 4 5 6	PG 27
ON 1 2 3 4 5 6	PG 4	ON 1 2 3 4 5 6	PG 12	ON 1 2 3 4 5 6	PG 20	ON 1 2 3 4 5 6	PG 28
ON 1 2 3 4 5 6	PG 5	ON 1 2 3 4 5 6	PG 13	ON 1 2 3 4 5 6	PG 21	ON 1 2 3 4 5 6	PG 29
ON 1 2 3 4 5 6	PG 6	ON 1 2 3 4 5 6	PG 14	ON 1 2 3 4 5 6	PG 22	ON 1 2 3 4 5 6	PG 30
ON 1 2 3 4 5 6	PG 7	ON 1 2 3 4 5 6	PG 15	ON 1 2 3 4 5 6	PG 23	ON 1 2 3 4 5 6	PG 31
ON 1 2 3 4 5 6	PG 8	ON 1 2 3 4 5 6	PG 16	ON 1 2 3 4 5 6	PG 24	ON 1 2 3 4 5 6	PG 32

table 1: The relay reacts to the PG output state.

ON 1 2 3 4 5 6	SC 1	ON 1 2 3 4 5 6	SC 9	ON 1 2 3 4 5 6	AL 1	ON 1 2 3 4 5 6	AL 9
ON 1 2 3 4 5 6	SC 2	ON 1 2 3 4 5 6	SC 10	ON 1 2 3 4 5 6	AL 2	ON 1 2 3 4 5 6	AL 10
ON 1 2 3 4 5 6	SC 3	ON 1 2 3 4 5 6	SC 11	ON 1 2 3 4 5 6	AL 3	ON 1 2 3 4 5 6	AL 11
ON 1 2 3 4 5 6	SC 4	ON 1 2 3 4 5 6	SC 12	ON 1 2 3 4 5 6	AL 4	ON 1 2 3 4 5 6	AL 12
ON 1 2 3 4 5 6	SC 5	ON 1 2 3 4 5 6	SC 13	ON 1 2 3 4 5 6	AL 5	ON 1 2 3 4 5 6	AL 13
ON 1 2 3 4 5 6	SC 6	ON 1 2 3 4 5 6	SC 14	ON 1 2 3 4 5 6	AL 6	ON 1 2 3 4 5 6	AL 14
ON 1 2 3 4 5 6	SC 7	ON 1 2 3 4 5 6	SC 15	ON 1 2 3 4 5 6	AL 7	ON 1 2 3 4 5 6	AL 15
ON 1 2 3 4 5 6	SC 8	SECTION: SET		ON 1 2 3 4 5 6	AL 8	SECTION: ALARM	

table 2:

The relay reacts to setting the selected section

table 3:

The relay reacts to an alarm in the selected section

Technical specifications

Power	12 V DC (10...30 V)
Communication frequency	868.1 MHz, JABLOTRON protocol
Maximum radiofrequency power (ERP)	< 25 mW
Quiescent current consumption	18 mA
Maximal current consumption	35 mA
Contact rating:	
Maximum switching voltage	50 V AC / 60 V DC
Resistive load (cos φ = 1)	max. 2 A
Minimum switching current	10 mA
Dimensions	82 x 50 x 16 mm
Weight	25 g
Average operational humidity	75% RH, non-condensation
Environment	indoor general
Operating temperature range	-10 °C to + 40 °C
In compliance with	ETSI EN 300 220-1, -2, EN 50130-4, EN 55032, EN IEC 62368-1, EN IEC 63000
Can be operating according to	ERC REC 70-03



JABLOTRON a.s. hereby declares that the JA-151N is in a compliance with the relevant 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 - 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.