

# JA-151N Wireless signal output module PG

The JA-151N is a wireless component of the JABLOTRON 100 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.

## 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.

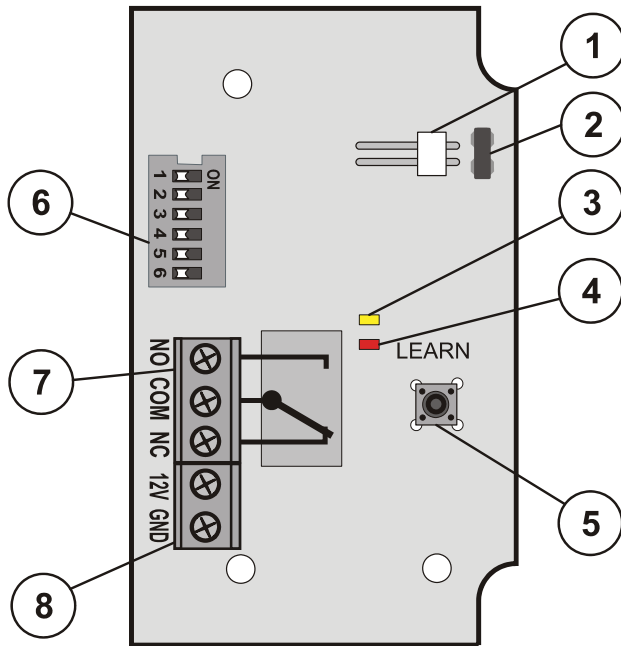


Figure: 1 – connector for external antenna; 2 – antenna jumper; 3 – yellow enrollment mode indicator; 4 – red relay switching indicator; 5 – enrollment button; 6 – configuration DIP switch; 7 – relay terminals; 8 – power terminals

- Use the switch (6) to set the required PG output or the section to which the relay should react (see tables).
- Connect the power cable to the terminals (8); turn the power on.
- 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 enrollment signal** button. The module will confirm enrolling by a 2 sec. flash. If the module does not receive an enrollment signal in 120 sec., it closes enrollment mode (LED is lit) and waits for enrollment mode to be opened again.
- Test the module's functioning. Relay switching is indicated by the red LED (4).
- 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 enroll 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 enrollment 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...16V)
Communication band	868.1 MHz
Current consumption if relay switched on / off	18 mA / 35 mA
Contact rating	
Maximum switching voltage	50 V AC / 60 V DC
Resistive load (cosφ=1)	max.2 A
Minimum switching current	10 mA
Dimensions	82 x 50 x 16 mm
Operational environment	Indoor general
Operating temperature range	-10 to + 40 °C
Also complies with	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1



JABLOTRON ALARMS a.s. hereby declares that the JA-151N is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The original of the conformity assessment can be found at [www.jablotron.com](http://www.jablotron.com) - Technical Support section



Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit [www.jablotron.com](http://www.jablotron.com).