

JA-150N Wireless power output module PG

The JA-150N is a wireless component of the **JABLOTRON** system. It provides an output power relay switch. It can be used for switching on/off the lights, ventilators, etc. The relay can be controlled with a programmable control panel (PG) output or according to the status of a section (set = 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-106K JA-107K and JA-152K control panels.**

Installation

The module can be installed into a JA-190PL mounting box. For proper module functioning, it is necessary to have a JA-11xR radio module installed in the system.

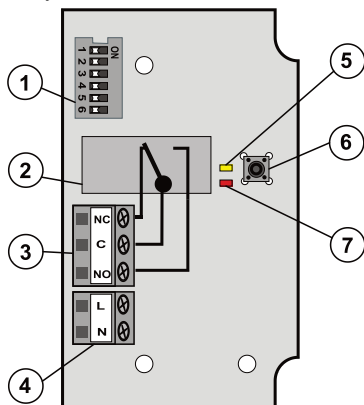


Figure: 1 – DIP switch; 2 – relay; 3 – relay terminals;
4 – main power terminals; 5 – yellow enrolment LED;
6 – enrolment button; 7 – red activation LED

- 1 Use the switch (1) to set the required PG output or section to which the relay should react (see tables).
- 2 Connect the main power cable to the mains terminals (4); turn the main power on.

Electrical devices can only be connected by an authorized technician.



The product is used for single pole switching of a single line and it does not provide safe disconnection of both mains lines.

- 3 After starting up, the yellow LED (5) starts to light permanently. Briefly press the button (6) and the LED starts to blink and enrolment mode is opened. In the F-Link software go to **F-Link – Settings – Devices** and press the button called **Send enrolment signal**. The module will confirm enrolling by a 2 sec flash. If the module does not receive an enrolment code in 120 sec., enrolment mode is closed (LED lit) and it waits for enrolment mode to be opened again.
- 4 Test the module's functioning. Relay switching is indicated by the red LED (7).
- 5 Connect the device to be controlled to the relay terminals (3).

Notes:

- The module does not occupy any position in control panel.
- Only one control panel can be enrolled to the module.
- If you connect multiple modules with identical settings to the system, 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 restoration or communication restoration the module will switch to the requested mode in 8 sec.
- You can erase an enrolled control panel by pressing and holding the button (6) for 6 sec. Erasing is confirmed by 6x quick flashes of the LED (5). 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	230 V AC / 50 Hz
Communication band	868.1 MHz, JABLOTRON protocol
Maximum radiofrequency power (ERP)	<25 mW
Maximal current consumption	30 mA
Relay contact loadability:	
Maximum acceptable relay voltage	250 V AC / 24 V DC
Resistive load (cos φ = 1)	max. 16 A
Inductive (capacitive) load (cos φ = 0.4)	max. 8 A
Halogen lighting	max. 1000 W
Minimum acceptable relay throughput DC	0.5 W
Minimum switching current	10 mA
Wire diameter:	max. 2 x 1.5 mm ² ; max. 1 x 2.5 mm ²
Dimensions	82 x 51 x 19 mm
Weight	46 g
Average operating humidity	75% RH, non-condensing
Environment	indoor general
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, EN IEC 63000 ERC REC 70-03

Can be operated according to



JABLOTRON a.s. hereby declares that the JA-150N 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.