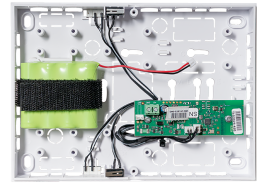


Signal repeater for JA-100 wireless components

Code: JA-151R

The repeater extends the communication range between the control panel's radio module and selected wireless peripherals. The product is compatible with JA-103K and JA-107K control panels and the JA-112R radio module (as well as the older JA-111R version).



Product description:

The JA-151R repeater allows you to double the range between the control panel's radio module and selected wireless peripherals. It is installed in a suitable location, ideally halfway between the radio module and the most distant peripheral, where it retransmits the captured signal at full power. This enables radio signal coverage in large premises where it is not possible to route bus cabling or install additional radio modules.

Jablotron schéma

- **Successor Model:** This product is the modernised successor to the [JA-150R](#) module. It features completely new hardware with significantly smaller dimensions and 12 V DC power supply. In addition to one-way wireless peripherals, it now also supports two-way asynchronous peripherals (selected detectors with two-way communication).
- **Housing:** The repeater is supplied in a [JA-194PL](#) installation box, which allows for the installation of a backup battery, concealment of excess cabling, or the mounting of a power supply unit.
- **Power Supply:** The 12 V DC power supply and low current consumption allow the repeater to be powered from alternative energy sources. For 230 V mains power, the following power supplies (sold separately) can be used:
 - [HLK-PM12JBT](#) - for installation directly inside the JA-194PL box with the repeater [JA-194PL](#).
 - [DE06-12](#) - for installation in a flush-mounted wall box.
 - [LT-089.07](#) - for powering the repeater from a standard socket.
- **Backup:** The [BAT-4V8-LH0900](#) backup battery (sold separately) ensures operation during a mains power failure and is an essential component of the repeater.
- **Compatibility:** The repeater supports most JABLOTRON 100+ series wireless detectors, remote controls (keyfobs), and non-addressable PG modules [JA-150N](#), [JA-151N](#). The specific peripherals to be repeated are selected in the repeater settings during installation.

The product does NOT repeat signals from fully two-way (synchronous) wireless peripherals:

- Keypads and access modules (JA-15xE)
- Sirens (JA-1xxA)
- Fire detectors with an internal siren function (JA-151ST-A)
- Motion detectors with a camera (JA-1xxPC)
- Combined PIR + MW motion detectors (JA-1xxPW)
- Thermostats (JA-150TP, JB-15xTx)
- Addressable output modules (JB-150N-HEAD, JB-16xN-PLUG, AC-160-x)
- Other repeaters (JB-15xR)

Technical information:

Power supply	8-15 V DC
Battery	BAT-4V8-LH0900 NiMH 4.8 V/900 mAh
Nominal current consumption (12 V)	16.5 mA
Maximum current consumption (12 V)	45 mA
Nominal current consumption (5.2 V)	30 mA
Maximum current consumption (5.2 V)	60 mA
Battery life	approx. 4 years
Low battery voltage detection	≤ 4.2 V
Communication frequency	868.1 MHz
Maximum radio frequency power (ERP)	<25 mW
Communication range (line of sight)	500 m
Discharge protection	≤ 4.2 V
Dimensions with JA-194PL box	130 x 180 x 45 mm
Weight (without battery)	268 g
Classification	security grade 2 / environment class III (according to EN 50131-1)
Environment	outdoor protected or extreme indoor conditions
Operating temperature range	-25 °C to +50 °C
Average operating humidity	75 % RH, non-condensation
Certification body	Trezor Test s.r.o. (No. 3025)
Complies with	EN 50131-3, EN 50131-5-3, EN 50131-6, ETSI EN 300 220-2, EN 50130-4, EN 55032, EN 62368-1, EN IEC 63000
Can be operated according to	ERC REC 70-03