



## JA-100K Control panel with built-in LAN communicator

Belongs to the core devices of the JABLOTRON 100+ security system. This is the smallest control panel for the protection of apartments, family houses and small businesses. It has a built-in LAN communicator.

○ [Declaration of conformity - JA-100K \(PDF 316.99 kB\)](#)



### Description

The required settings and sizing of the system are programmed through the F-Link software.

### The JA-100K control panel offers:

- up to 32 wireless or bus devices
- up to 32 user codes
- up to 4 sections
- up to 4 programmable PG outputs
- 10 independent schedules
- SMS and voice reports (with JA-190Y GSM communicator module) from the system to up to 8 users
- 5 ARCs can be set
- 5 selectable protocols for an ARC

The control panel has an integrated LAN communicator that enables data communication with an ARC and the JABLOTRON CLOUD, which enables full use of the MyJABLOTRON application.

### The control panel contains:

- 1 terminal board for bus connection
- 1 connector for a built-in radio module (JA-111R)

The control panel can only be installed by a trained installer with a valid Jablotron certificate.

### Technical specifications

**Type of installation**

Fixed installation

**Nominal control panel voltage / frequency / fuse**

~ 230 V/50 Hz, T200 mA fuse 250 V, 5 x 20 mm  
~ 115 V/60 Hz, T400 mA fuse 250 V, 5 x 20 mm

**Operational AC voltage range**

~ 195 V ÷ 250 V  
~ 110 V ÷ 120 V

**Electric power/current**

max. 23 VA/0.1 A

<b>Protection class</b>	II.
<b>Back-up battery</b>	12 V; 2.6 Ah max. (lead-acid)
<b>Low battery voltage (fault indication)</b>	≤11 V
<b>Maximum battery charging time</b>	48 ÷ 72 hrs
<b>BUS voltage/max. voltage ripple (red-black)</b>	12.0 ÷ 13.8 V DC/± 100 mV
<b>Max. continuous consumption from the control panel BUS +RJ</b>	400 mA permanently (1000 mA for 5 minutes)
<b>@ 12 hours backup (2.6 Ah)</b>	LAN OFF: 125 mA – consumption of modules JA-190X (Y) LAN ON: 85 mA – consumption of modules JA-190X (Y)
<b>Max. number of sections</b>	4
<b>Max. number of devices</b>	32
<b>Max. number of users</b>	33
<b>Max. number of PG outputs</b>	4
<b>Alarm connection</b>	Jablotron BUS – dedicated wiring Wireless connection (with JA-111R) – unspecified wireless connection, Jablotron wireless protocol
<b>Alarm system classification</b>	Security grade 2/environmental class II
<b>@ according to standards</b>	EN 50131-1, EN 50131-3, EN 50131-6, EN 50131-5-3, EN50131-10, EN 50136-1, EN 50136-2
<b>@ environment</b>	indoor general
<b>@ operational temperature/humidity</b>	-10 °C to +40 °C, relative humidity 75% no condensation
<b>@ power</b>	Type A – primary supply with a charged backup battery
<b>@ event history</b>	approx. 7 million latest events, incl. date and time
<b>@ system reaction to communication loss</b>	Fault or tamper – according to the pre-set profile @ BUS until 10 sec @ wireless communication in 2 hrs (report) @ wireless communication in 20 min, blocks system to be set
<b>@ reaction to invalid code entry</b>	After 10 wrong code entries a tamper alarm is triggered and according to the selected profile it blocks all control devices for 10 min
<b>@ ATS classification</b>	Supported ATS classes: SP2 – SP 5, DP2 – DP3 SPT: type Z Operation type: Pass-Through Built-in LAN: SP2 – SP5 (with IP protocol) JA-190Y SP2 – SP5 (with IP protocol) JA-190X SP2 (with Contact ID protocol) LAN + JA-190Y DP2 – DP3 (with IP protocol) LAN + JA-190X DP2 (with IP / CID protocol)
<b>@ ATS transmission protocols</b>	JABLO IP, SIA IP, Contact ID, JABLO SMS

**@ ATC protection against substitution and data protection**

Jablotron protocol: Proprietary AES encryption with minimum 128 bit key  
ANSI SIA DC-09.2012 protocol with 128 bit AES encryption

**LAN communicator**

Ethernet interface CAT 5 (RJ-45)

**Dimensions**

268 x 225 x 83 mm

**Weight**

1450 g

**Basic parameters of the JA-111R module**

868.1 MHz, < 25 mW, GFSK < 80 kHz

**Radio emissions**

ETSI EN 300 220-2 (R module)

**EMC**

EN 50130-4, EN 55022, ETSI EN 301 489-7, ETSI EN 301 489-3

**Electric safety**

EN 60950-1

**Operational conditions**

ERC REC 70-03, ERC DEC (98) 20

**Certification body**

TREZOR TEST