JA-100KR Control panel with built-in LAN communicator and radio module

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 an integrated LAN communicator and it is fitted with JA-111R module.

Description

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

The JA-100K control panel offers:

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

o 1 terminal board for bus connection

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
Protection class	II.

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

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