



JA-102KY JABLOTRON Mercury Alarm system control panel

Installation should be done by a trained technician with a valid certificate issued by an authorized Jablotron distributor.

The required settings and system parameters are programmed via MyCOMPANY. The setup is intuitive and very simple even for novice installers.

○ [Declaration of conformity - JA-102KY \(PDF 670.49 kB\)](#)

Description

The JA-102K control panel offers:

- up to 31 wireless or bus peripherals
- up to 32 users
- up to 4 sections
- up to 2 programmable PG outputs

The control panel has:

- 1 terminal block for bus connection
- 1 connector for built-in radio module (JA-111R)
- 1 connector for GSM/GPRS communicator (JA-194Y-LITE)

Technical specifications

Installation type	Fixed instalation
Control panel power supply / frequency / fuse	~ 110-230 V/50-60 Hz, max. 0.28 A with F1.6 A/250 V fuse, protection class II
Power / current	max 23 VA / 0.1 A
Protection class	II.
Back-up battery	12 V; 2.6 Ah max (lead gel)
Low backup battery voltage (fault indication)	≤11 V
Maximum battery recharge time (80% capacity)	72 h
Bus supply voltage / max ripple (red - black)	12.0 ÷ 13.8 VDC / ±100 mV

Max. continuous consumption from control panel	1000 mA
- with 12 h backup (2.6 Ah battery)	Without GSM communicator LAN - off: 115 mA LAN - on: 88 mA With GSM communicator LAN - off: 80 mA LAN - on: 53 mA
Max. number of sections	4
Max. number of peripherals	31 peripherals + 31 drivers
Max. number of users	32
Max. number of PG outputs	2
Alarm connections	<ul style="list-style-type: none"> ○ Jablotron bus - dedicated cable connection ○ Wireless connection (with JA-111R) - non-specific wireless connection, wireless ○ Jablotron protocol
Alarm device classification	Security level 2 / environment class II
- In accordance with	EN50131-1, EN 50131-3, EN 50131-6, EN 50131-5-3 (using the radio module), EN 50131-10, EN 50136-1, EN 50136-2
- Environment	Indoor general
- Operating temperature/humidity range	-10 °C to +40 °C/75% non-condensing
- Power supply	Type A - primary power supply with rechargeable backup battery
- Event memory capacity	of approx. 7 million recent events including source, date and time
- system response to loss of communication with periphery	Fault or Sabotage - depending on settings and profile <ul style="list-style-type: none"> ○ bus up to 10 s ○ wireless communication up to 2 h (since last communication) ○ wireless communication within 20 min prevents securing the section
- System reaction to incorrectly entered codes	after 10 incorrectly entered codes a sabotage alarm is declared and, depending on the selected profile, all control devices are blocked for 10 minutes.
- ATS classification	Supported ATS classes: SP2 - SP5, DP2 - DP4 SPT: Type Z Type of operation: Pass-through LAN on board: SP2 - SP5 (with IP protocol) JA-194Y LITE SP3 - SP5 (JABLO IP, ANSI SIA, DC-09) LAN + JA-194Y LITE DP2 - DP4 JABLO IP, ANSI SIA, DC-09)
- ATS alarm transmission protocols	JABLO IP, SIA IP, Contact ID,
- ATC security against substitution and information protection	Jablotron protocols: proprietary AES encryption with minimum 128-bit ANSI SIA key 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 with/ without ACU	1809 g/919 g

Basic parameters of the JA-111R module	868.1 MHz, <25 mW, GFSK <80 kHz
Radio emission	ETSI EN 300 220-2 (JA-111R module)
EMC	EN 50130-4, EN 55032, ETSI EN 301 489-1, ETSI EN 301 489-3
Electrical safety	EN IEC 62368-1
Conditions of operation of the CTU radio module	ERC REC 70-03
Certification body	TREZOR TEST (No. 3025)