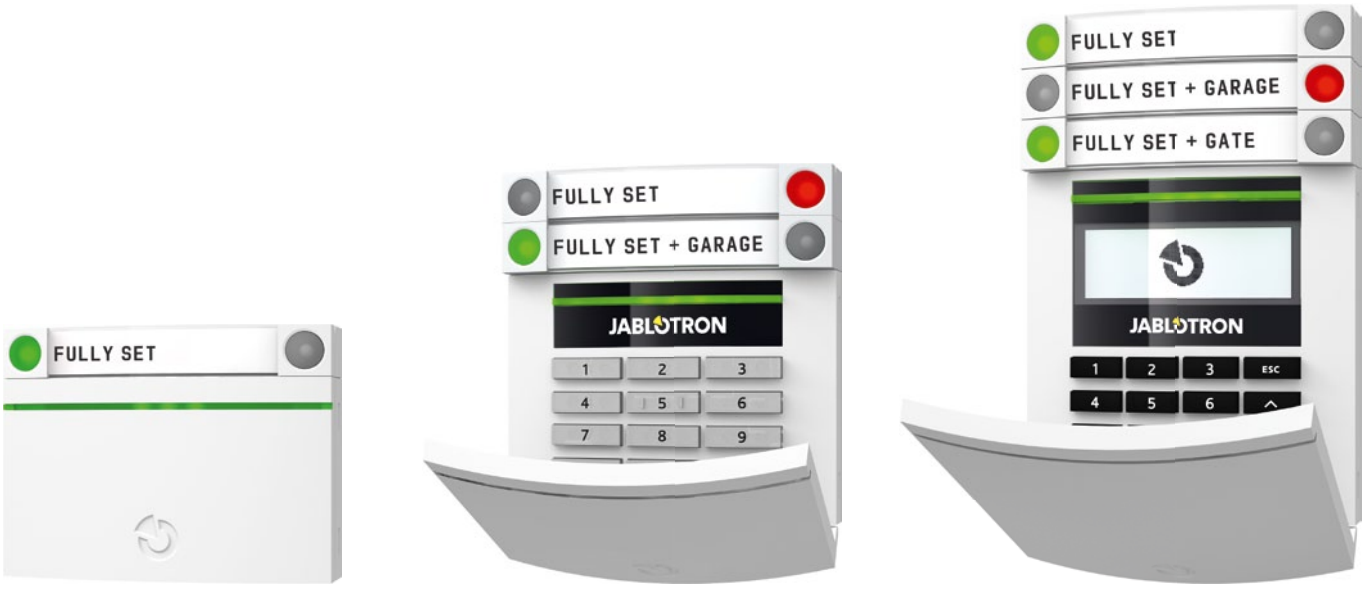
JABLOTRON 100 system



Product range

New alarm with revolutionary control

JABLOTRON
CREATING ALARMS

TABLE OF CONTENTS

CONTROL PANELS AND COMMUNICATORS

Control panel with built-in GSM/GPRS communicator

JA-101K

The JA-101K control panel is a basic component of the JABLOTRON 100 alarm system. It offers flexible setting and allows easy protection for small premises, bigger family houses, offices and companies. The desired settings and the size of the system is programmed by F-link SW.

The JA-101K offers:
– up to 50 wireless or BUS hardwired zones
– up to 50 user codes
– up to 6 sections
– up to 8 programmable outputs
– 20 independent calendars
– system reports to 8 users by SMS
– 5 users have the option of voice and SMS reporting
– 4 ARC settings
– 5 selectable reports to ARC

It has a built-in GSM/GPRS communicator on the board offering communication by voice, SMS or GPRS to end users or to ARC centers. It is equiped with a 1 GB memory card on the board for saving event reports, a voice menu and messages, the storage of pictures and more.

The main control unit includes terminals:
– 1× BUS terminal
– 1× terminal for built-in radio module (JA-110R)

- External power source 230 V/50 Hz
- Power supply type A (EN 50131-6)
- Current consumption: lost AC 70 mA, during alarm 120 mA
- Back-up battery 12 V up to 2.6 Ah
- Maximum recharge time 72 hours
- BUS power supply maximum continuous load 400 mA
- Intermittent max output current (5 min.) 1 A
- Backup BUS power supply via 2.4 Ah backup battery for 12 hours at 120 mA
- JA-110R operating frequency – 2-way Jablotron protocol 868 MHz (not included)
- Number of addresses (wireless or BUS): max. 50
- Event reports: 700 MB app. 1 million enhanced events including time and date
- Alarm verification function by second detector or by selectable delayed reaction (10 s - 2 min) from the same detector (optional setting)
- Security grade 2 according to EN 50131-1, EN 50131-6 and EN 50131-5-3 and EN 50131-3; Environment according to EN 50131-1: II, internal

Control panel with built-in GSM/GPRS/ LAN communicator

JA-106K

The JA-106K is an advanced control panel in the JABLOTRON 100 alarm system. It offers flexible setting and allows the smart protection of bigger family houses, offices or companies as well as allowing flexible solutions for apartment complexes, office buildings or companies with a need to use many sections in the system. The desired settings and the size of the system is programmed by F-Link SW.

The JA-106K offers:
– up to 120 wireless or BUS hardwired zones
– up to 300 user codes
– up to 15 sections
– up to 32 programmable outputs
– 20 independent calendars
– the system reports to 30 users by SMS
– 5 users have the option of voice and SMS reporting the option
– 4 ARC settings
– 5 selectable reports to ARC

It has a built-in GSM/GPRS and LAN communicator on the board offering communication by voice, SMS or GPRS to end users or to ARC centers. It is equiped with a 1 GB memory card on the board for saving event reports, a voice menu and messages, storage of pictures and more.

The main control unit includes terminals:
– 2× independent BUS terminals
– 1× terminal for built-in radio module (JA-110R)
– 1× terminal for PSTN communication module (JA-190X)

- External power source 230 V/50 Hz
- Power supply type A (EN 50131-6)
- Current consumption: lost AC 140 mA, during alarm 200 mA
- Back-up battery 12 V up to 7 - 18 Ah
- Maximum recharge time 72 hours
- BUS power supply maximum continuous load 1.2 A
- Intermittent output current (5 min.) 2 A
- Backup BUS power supply via 18 Ah: backup battery for 12 hours (power consumption maximum 1.2 A)
- JA-110R operating frequency – 2-way Jablotron protocol 868.1 MHz (not included)
- Number of addresses (wireless or BUS): max. 120
- Event reports: 700 MB app. 7 million enhanced events including time and date
- Alarm verification function by second detector or by selectable delayed reaction (10 s - 2 min) from the same detector (optional setting)
- Security grade 2 according to EN 50131-1, EN 50131-6 and EN 50131-5-3 and EN 50131-3; Environment according to EN 50131-1: II, internal

PSTN communication module

Coming soon

JA-190X

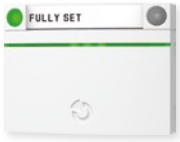
The JA-190X is a PSTN communicator module for the JA-106K.
It offers CID ARC communication and voice messages.

- 2 PSTN line terminals IN/OUT
- ARC protocols: CID DTMF, SIA DC-05 or SIA FSK by DC-03 standard
- CLIP detection
- Line failure detection
- Standards: EN 301437
- Voice messages

BUS HARDWIRED DEVICES

Access modules

BUS access module with RFID



JA-112E

The JA-112E is an RFID access module designed for controling an alarm system.
It includes one control segment and if needed it can be equipped with maximum 20 JA-192E control segments.
It allows control of an alarm system by using segments. It communicates by BUS and it is powered from the BUS.
Implemented power consumption saving function during AC outage. It is addressable and occupies one position in the alarm system.

- Power: via the control panel BUS, 12 V (9 - 15 V)
- Current consumption: lost AC 10 mA
- Standby: max. 15 mA
- RFID 125 kHz
- Dimensions: 102 × 76 × 33 mm
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C
- Security grade 2 according to EN 50131-1, 50131-3

BUS access module with RFID and keypad

JA-113E

The JA-113E is a the access module with controlling touch keys and an RFID reader designed for controling an alarm system. It includes one control segment and if needed it can be equipped with maximum 20 JA-192E control segments. It allows control of an alarm system by using segments. It communicates by BUS and it is powered from the BUS. Implemented power consumption saving function during AC outage. It is addressable and occupies one position in the alarm system.

- Power: via the control panel BUS, 12 V (9 - 15 V)
- Current consumption: lost AC 10 mA
- Standby: 15 mA
- RFID 125 kHz
- Dimensions: 102 × 98 × 33 mm
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

BUS access module with LCD, keypad and RFID

JA-114E

The JA-114E is an access module with an LCD, keys and an RFID reader designed for controling an alarm system. It includes one control segment and if needed it can be equipped with maximum 20 JA-192E control segments. It allows control of an alarm system by using segments. It communicates by the BUS and it is powered from the BUS. Implemented power consumption saving function during AC outage. It is addressable and occupies one position in the alarm system. Menu options allow the convenient control of sections, zones, PG outputs and event reports.

- Power: via the control panel BUS, 12 V (9 - 15 V)
- Current consumption: lost AC 15 mA
- Standby: max. 50 mA
- RFID 125 kHz
- Dimensions: 102 × 151 × 33 mm
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Control segment for access modules

JA-192E

The JA-192E is a control segment for access modules JA-112E, JA-113E, JA-114E, JA-152E, JA-153E, and JA-154E.
It allows the user to easily control functions in the alarm system:
– partition control (SET, PARTIAL SET, UNSET)
– PG output control (PG ON and PG OFF)
– call up events (panic, medical alert and others)
– status indication

- Power: via the access module
- Standby consumption: 0.5 mA
- Dimensions: 102 × 15 × 33 mm
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Detectors

BUS PIR movement detectors

BUS PIR motion detector

JA-110P

The JA-110P is a BUS PIR motion detector designed for interior protection. It detects movement with a human body temperature. The detection characteristic may be optimised by using alternative lenses JS-7904 LONG HALL WAY, JS 7906 PET or JS-7901 CURTAIN. The immunity level is selectable to two levels. The Alarm memory function is an optional setting allowing the easy indication and location of an alarm.
It is addressable and occupies one position in the alarm. SMART MEMORY indication (SMI) provides visual LED verification of a triggered detector. SMI is cleared through the keypad.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 5 mA
- Mounting height: 2.5 m above the floor
- Detection range 110°/12 m (with standard lense)
- Dimensions: 60 × 97 × 52 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-2
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

Bus PIR Motion Detector with Camera

Coming soon

JA-120PC

The JA-120PC is a PIR motion detector with an inbuilt camera module. The detector detects movement within a guarded space including visual alarm confirmation. The camera takes digital colour still shots during an alarm in JPEG format with a resolution of up to 640 × 480 pixels. If a movement is detected the camera takes a series of pictures. The pictures are saved in the internal memory of the detector and transmitted to the control panel in compressed format. From there the shots are transmitted outside the building.

Picture parameters:
– QVGA JPEG 320×240
– VGA JPEG 640×480

Internal memory:
– Micro SD card
– The oldest pictures are overwritten by the newest ones
– The pictures can be uploaded to a PC
– Examples of the estimated numbers of shots depending on memory card capacity:
  – 1 GB 8000 VGA + 8000 QVGA
  – 2 GB 16000 VGA + 16000 QVGA
  – 4 GB 32000 VGA + 32000 QVGA

- Power: from the control panel bus 12 V (9 – 15 V)
- Detection angle/shot range: 50°/12 m (with standard lens)
- Memory card: Micro SD
- Acceptable capacities: 1 GB to 2 TB
- Environment pursuant to EN 50131-1: II, interior general
- Operational temperature range: -10 to +40 °C
- Security level: Grade 2, EN-50131-1

BUS perimeter protection detectors

BUS acoustic glassbreak detector

JA-110B

The JA-110B BUS glass break detector detects the breaking of glass windows. Dual technology detection (air pressure and sound analysis) is used. The sensitivity is adjustable. The detector communicates on the control panel BUS and it is powered by the BUS. The alarm memory function is an optional setting allowing the easy indication and location of an alarm. It is addressable and occupies one position in the alarm. SMART MEMORY indication (SMI) provides visual LED verification of a triggered detector. SMI is cleared through the keypad.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 5 mA
- Mounting height: 2.5 m above the fl oor
- Detection range: up to 9 m
- Minimum glass dimensions: 0.6 × 0.6 meters
- Initialization: maximum 60 seconds
- Dimensions: 40 × 100 × 22 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-7-1
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

BUS module for magnetic detectors – 2 inputs

JA-110M

The JA-110M connects to a magnetic door opening detector and has two independent programmable inputs NC, NO or EOL resistor. It filters triggering time (0.5 s, 1 s, 2 s or 5 s). Communicates and is powered by the control panel BUS. The alarm memory function allows the easy indication and location of an alarm. It is addressable and occupies two positions. Smart memory indication (SMI) provides visual LED triggering verification. SMI is cleared through the keypad.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 3 mA
- Connection wire length between module and magnetic contacts: up to 3 meters
- Dimensions: 40 × 100 × 22 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-6
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

Bus Magnetic Opening Detector

Coming soon

JA-111M

The device detects door or window opening. Communication with the control panel runs via the bus. The detector is equipped with a sabotage protection cover activated after cover opening. The sensor is activated after the permanent magnet moves away from the sensor. The device occupies a single position in the security system.

- Power: from the control panel bus 12 V (9 - 15 V)
- Standby consumption: 5 mA
- Detector size: 26 × 55 × 16 mm
- Magnet size: 16 × 55x 16 mm
- Security level: Grade 2, EN 50131-1
- Operation temperature: –10 to 40 °C

BUS environmental detectors

BUS combined smoke and heat fire detector

JA-110ST

The JA-110ST detects fire inside residential or commercial premises. It allows: smoke and heat, smoke or heat, smoke only, heat only. The alarm memory function lights the LED after the alarm state. It is addressable and occupies one position. SMART MEMORY indication (SMI) provides visual LED triggering verification. SMI is cleared through the keypad.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 5 mA
- Fire detection: optical and heat
- Fire detection sensitivity: m=0.11/0.13 dB/m EN 54-7
- Temperature detection: class A2 of EN 54-5
- Alarm temperature: 60 to 70 °C
- Dimensions: diameter 126 mm, height 50 mm
- Operating temperature range: –10 to 80 °C

Bus Flood Detector

JA-110F

The detector indicates space (cellar, bathroom etc.) flooding. This information is transmitted to the control panel via the bus. When the electrodes are flooded the detector sends an activation signal. When electrode flooding retreats a standby signal is sent. The detector has no tamper and occupies a single position in the system.

- Power: from the control panel bus 12 V (9 - 15 V)
- Detector: Reacts to electrode flooding with water
- Size: 20 × 53 × 5 mm
- Operational temperature range: –10 to 40 °C

BUS module interface for wire detectors

JA-111H

The JA-111H BUS module is designed for connecting any hardwired detector to the JA-100 alarm system. The module communicates and it is powered by the control panel BUS. The module is available as a PCB and it can be mounted in a hardwired detector. It offers a NC or NO input. It allows filtering of the minimum triggering time (0.5 s, 1 s, 2 s or 5 s).

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 2 mA
- Maximum standby consumption of connected detector: 50 mA
- Dimensions: 22 × 27 × 14 mm
- Security level: grade 2, EN 50131-1, EN 50131-3
- Environmental according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

Sirens

BUS internal siren

JA-110A

The JA-110A BUS internal siren is designed to sound alarms, exit and entrance delays, chirps and PG output activations in the alarm system. The siren is equipped with a button with programmable reactions. Implemented alarm verification feature. The siren communicates and is powered by the control panel BUS. It is addressable and occupies one position in the alarm.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Avg. standby consumption: 5 mA; alarm consumption 30 mA
- Siren: piezo electric, 90 dB/m
- Dimensions: 80 × 80 × 30 mm
- Security level: grade 2, EN 50131-1, EN 50131-4
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

BUS external siren

JA-111A

The JA-111A BUS external back-up siren is designed to sound alarms, chirps and PG output activation or deactivation. The siren communicates by the BUS and it is powered from the control panel BUS. Implemented power consumption saving function during AC outage. Built-in spirit-level for precise and easy adjusting during installation. It is addressable and occupies one position in the alarm.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Consumption during AC lost 5 mA
- Consumption during charging battery: 50 mA
- Back-up battery: NiCd pack 4.8 V/1 800 mAh
- Battery lifetime: 3 years
- Siren: piezo electric, 110 dB/m
- Dimensions: 158 × 230 × 75 mm
- Security level: grade 2, EN 50131-1, EN 50131-4
- Environmental according to EN 50131-1: outdoor IV
- Operating temperature range: –25 to 60 °C
- Protection: IP 45

BUS power output module PG

JA-110N

The JA-110N BUS power output module PG is designed to offer one switchable output relay (8 A) with a NO or NC setting. An appropriate PG output is programmed by DIP switches (operates one of PG outputs 1 - 32). The module communicates by the BUS and it is powered from the control panel BUS. It can be installed in a JA-190PL housing. It is not addressable.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Switched off consumption: 5 mA
- Switched on consumption: 45 mA
- Maximum output relay load: max. 16 A/250 V
- Reactive load: max. 8 A/250 V
- Minimum switching current: 100 mA at 12 V DC or 1.2 W
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

BUS signal output module PG

JA-111N

The JA-110N BUS signal output module PG is designed to offer one switchable relay (1 A) with a NO or NC setting. An appropriate PG output is programmed by DIP switches (operates one of PG outputs 1 - 32). The module communicates by the BUS and it is powered from the control panel BUS. It can be installed in a JA-190PL housing. It is not addressable.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Switched off consumption: 5 mA
- Switched on consumption: 25 mA
- Maximum output relay load: max. 1 A/30 V DC
- Minimum switching current: 10 mA
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Eight-Channel Bus Output Module

JA-118N

The eight-channel output module provides outputs for the signalling of the security status of up to 8 sections, the signalling of IW/EW alarms in the 8 sections or the conditions of up to 8 PG outputs. It is designed for installation in a JA-190PL multipurpose box or on a DIN board. Its outputs are isolated from the bus. Setting is done by a DIP switch. The module occupies no position in the system.

- Power: from the control panel bus 12 V (9 - 15 V)
- Setting: By DIP switch
- Outputs: Providing +U voltage
- Output load capacity: 100 mA

BUS section / output PG activation indicator

JA-110I

The JA-110I indicates activations (SET) of a section or PG output (1 - 32) by RED LED. It is connected by BUS to the control panel. It is not addressable (it does not occupy any position in the alarm system).

- LED ON consumption: 5 mA
- LED OFF consumption: 2 mA
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Universal LED indicator RGB

JA-111I

The JA-111I indicates activations of a section (SET) or PG output activations (1 – 32) by multicolour LED (red, green, blue and yellow).

- LED ON consumption: max. 4 mA
- LED OFF consumption: 0 mA
- Operating temperature range: –10 to 40 °C

BUS short circuit isolator module

JA-110T

The JA-110T BUS isolator is designed to separate and protect unsecured parts of BUS wiring. It is powered from the control panel BUS. It can be installed in a JA-190PL housing box. It is not addressable (it doesn´t occupy any position in the alarm).

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 5 mA
- Maximum terminal load: 250 mA
- Switch off current 300 mA
- Environment according to EN 50131-1, EN 50131-3 : II, internal
- Operating temperature range: –10 to 40 °C

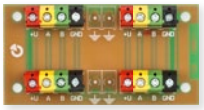
Multipurpose installation box

JA-190PL

The JA-190PL multipurpose installation box for various modules of the JA-100 system.

- 90 × 90 mm
- IP 40
- Resistant up to 250 V
- ABS materiál

BUS terminal module

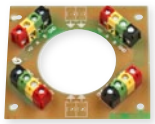


JA-110Z-A

The JA-110Z-A is designed to allow you to join BUS lines in the JA-100 system.
It can be installed in the JA-190PL.

- Maximum voltage AC 42 V
- Maximum voltage DC 60 V
- Maximum current 2 A

BUS terminal module



JA-110Z-B

The JA-110Z-B is designed to allow you to join BUS lines in the JA-100 system.
It can be installed in the JA-190PL.

- Maximum voltage AC 42 V
- Maximum voltage DC 60 V
- Maximum current 2 A

BUS terminal module

JA-110Z-C

The JA-110Z-C is designed to allow you to join BUS lines in the JA-100 system.
It can be installed in the JA-190PL.

- Maximum voltage AC 42 V
- Maximum voltage DC 60 V
- Maximum current 2 A

Installation wire for the JA-100 system

CC-01

Installation wire designed for installation. Wire colours are identical to terminals colours.
Easy Reel box, 300 m, Marking (Black ink, once per meter).

- 1 × 2 × 24 AWG (0.5 mm) max. Conductor DC Resistance at 20 °C 97 Ω /km
- 1 × 2 × 20 AWG (0.8 mm) max. Conductor DC Resistance at 20 °C 38 Ω /km

Installation wire for the JA-100 system

CC-02

Installation wire designed for installation. Wire colours are identical to terminals colours.
Easy Reel box, 300 m, Marking (Black ink, once per meter).

- 2 × 2 × 24 AWG (0.5 mm) max. Conductor DC Resistance at 20 °C 97 Ω /km

RADIO DEVICES

Bus interface for wireless components

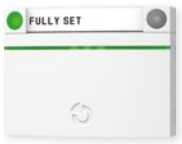
JA-110R

The JA-110R radio BUS module allows you to connect radio devices such as detectors to the alarm system. A maximum of 3 JA-110R modules can be installed in the system in order to secure excellent radio coverage in the premises. The module communicates and is powered by the BUS. It is optional to mount the module in the control panel housing. It is addressable and occupies one position in the alarm.

- Power: via the control panel BUS 12 V (9 - 15 V)
- Standby consumption: 25 mA
- Radio frequency: 868.1 MHz
- Dimensions: 40 × 150 × 23 mm
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Wireless access modules

Wireless access module with RFID



JA-152E

The JA-152E is 2-way wireless RFID access module designed for controling an alarm system. It includes one control segment and if needed it can be equipped with maximum 20 JA-192E control segments. It allows control of an alarm system by using segments. Implemented Smart Radio Wake-up (SRW) entrance function allowing automatic ending of sleep mode in set systems during the entrance delay time. It is battery powered by alkaline batteries. It is addressable and occupies one position in the alarm system.

- Power: 2 alkaline batteries AA 1.5 V
- Typical lifetime: 1 year
- Communicating protocol: Jablotron 2 way 868 MHz
- Radio coverage: up to 200 meters
- Dimensions: 102 × 76 × 33 mm
- Security level: grade 2, EN 50131-1, EN 50131-3, EN 50131-6
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Wireless access module with RFID and keypad

JA-153E

The JA-153E is 2-way wireless keypad with an RFID access module designed for controling an alarm system. It includes one control segment and if needed it can be equipped with maximum 20 JA-192E control segments. It allows control of an alarm system by using segments. Implemented Smart Radio Wake-up (SRW) entrance function allowing automatic ending of sleep mode in set systems during the entrance delay time. It is battery powered by alkaline batteries. It is addressable and occupies one position in the alarm system.

- Power: 2 alkaline batteries AA 1.5 V
- Typical lifetime: 1 year
- Communicating protocol: Jablotron 2 way 868 MHz
- Radio coverage: up to 200 meters
- Dimensions: 102 × 98 × 33 mm
- Security level: grade 2, EN 50131-1, EN 50131-3, EN 50131-6
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Wireless Access Module with Display, Keyboard and RFID

Coming soon

JA-154E

The JA-154E is a two-way wireless access module with an LCD display, a keypad and an RFID reader for security system control. The module includes one control segment and can be equipped with up to 20 JA-192E control segments. The segments are used for security system control. The implemented function of smart radio activation by the Smart Radio Wake-up input (SRW) allows for the automatic interruption of sleep mode in a set system during the entrance delay. The module is powered by alkaline batteries. The module is addressable and occupies a single position in the security system.

- Power: 4× AA 1.5 V alkaline batteries
- Typical battery life: 1 year
- Operational frequency: Two-way Jablotron 868 MHz protocol
- Communication range: up to 200 metres
- Size: 102 × 151 × 33 mm
- Security level: Grade 2, EN 50131-1, EN 50131-3, EN 50131-6
- Environment pursuant to EN 50131-1, EN 50131-3: II, interior general
- Operation temperature range: –10 to 40 °C

Mains Adaptor 12V / 0.5A

DE06-12

This mains adaptor is used as a power supply to wireless keypads or other 12V appliances. The adaptor size allows for its installation in a standard electrical box under plaster (KU-68). The bottoms of the above-mentioned Jablotron products are prepared for installation onto standardised electrical installation boxes. The adaptor may also be installed in a switchboard where it can be fixed with two M3 screws.

- Power: 100 ~ 240 V/50 Hz
- Output voltage: 12V DC (±2%)
- Output current: 500 mA (max. 1000 mA for less than 5 min.)
- Short circuit and temperature overloading protection: Yes
- Size: 50 × 48 × 25 mm
- Environment pursuant to EN 50131-1: II, interior, general
- Operational temperature range: -10°C to +40°C
- Compliance with standards: EN 60950-1, EN 61204-3, EN 61000-3-2, 3-3, 6-1, 6-3, EN 5502

Wireless detectors

Wireless PIR movement and combined detectors

Wireless motion PIR detector

JA-180P

The JA-180P PIR motion detector detects human body movement inside buildings with many entrances. The response is either instant or delayed. Built-in tamper sensors protect against unauthorized contact. The detector performs regular self-testing and regularly reports to the system for full supervision. The detection characteristic may be optimised by using alternative lenses JS-7904 LONG HALLWAY, JS 7906 PET or JS-7901 CURTAIN. The JA-180P also provides a wired input where additional detectors such as magnetic door detectors can be connected It is addressable and occupies one position in the alarm.

- Power: 1x lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: 120°/12 m (with standard lense)
- Dimensions: 110 × 60 × 55 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-2
- Environment according to EN 50131-1: II, internal
- Optional lenses corridor, curtain, pet

Wireless motion PIR detector

JA-150P

The JA-150P is a PIR motion detector designed for interior protection. It detects object movement having a human body temperature. The detection characteristic may be optimised by using the alternative lenses JS-7904 LONG HALLWAY, JS 7906 PET or JS-7901 CURTAIN. The immunity level is selectable to two levels. It is powered by two alkaline batteries. Smartwatch function implemented for enhanced alarm reporting and battery life saving. It is addressable and occupies one position in the alarm.

- Power: 2 alkaline batteries AA 1.5 V
- Typical lifetime: 2 years
- Communicating protocol: 868.1 MHz
- Radio coverage: up to 300 meters (open area)
- Mounting height: 2.5 m above floor
- Detection range 110°/12 m (with standard lense)
- Dimensions: 60 × 97 × 52 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-2, EN 50131-5-3
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

Wireless PIR Motion Detector with Camera

Coming soon

JA-160PC

JA-160PC is a PIR motion detector with an inbuilt camera module. The detector detects movement within a guarded space including visual alarm confirmation. The camera takes digital colour still shots during an alarm in JPEG format with a resolution of up to 640 × 480 pixels. If a movement is detected the camera takes a series of pictures. The pictures are saved in the internal memory of the detector and wirelessly transmitted to the control panel in compressed format. From there the shots are transmitted outside the building.

Picture parameters:
– QVGA JPEG 320×240
– VGA JPEG 640×480

Internal memory:
– Micro SD card
– The oldest pictures are overwritten by the newest ones
– The pictures can be uploaded to a PC
– Examples of the estimated numbers of shots depending on memory card capacity:
  – 1 GB 8000 VGA + 8000 QVGA
  – 2 GB 16000 VGA + 16000 QVGA
  – 4 GB 32000 VGA + 32000 QVGA

- Power: 2x AA 1.5 V alkaline batteries (LR6)
- Typical battery life: 2 years (taking one picture a day under good light conditions)
- Operational frequency: 868 MHz
- Detection angle/shot range: 50°/12 m (with standard lens)
- Memory card: Micro SD
- Acceptable capacities: 1 GB to 2 TB
- Environment pursuant to EN 50131-1: II, interior general
- Operational temperature range: –10 to +40 °C
- Security level: Grade 2, EN-50131-2-2

Wireless PIR and Glass Break combined detector

JA-180PB

The JA-180PB combines the JA-180P PIR motion sensor with a glass-break sensor in one housing. Each sensor is enrolled to the control panel separately. The dual technology glass-break sensor reacts to air pressure changes followed by sound analysis to ensure a high immunity to false alarms. The detection characteristic may be optimised by using alternative lenses JS-7904 LONG HALLWAY, JS 7906 PET or JS-7901 CURTAIN. It is addressable and occupies two positions in the alarm.

- Power: 1x lithium battery AA 3.6 V – PIR and 1× lithium battery 1/2 AA 3.6 V – GBS
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: 120°/12 m (with standard lense), 9 m – GBS
- Dimensions: 110 × 60 × 55 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-2, EN 50131-2-7-1, EN 50131-5-3
- Environment according to EN 50131-1: II, internal
- Optional lenses corridor, curtain, pet

Wireless ceiling PIR detector

JA-185P

The JA-185P is a small-size wireless PIR sensor suitable for protecting small rooms or car interiors. It is designed for wall or ceiling installations. It uses digital signal processing to avoid false alarms. It is addressable and occupies one position in the alarm.

- Power: 1x lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 100 m (open area)
- Detection range: 360°/5 m
- Dimensions: 46 × 88 × 27 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-2, EN 50131-5-3
- Environment according to EN 50131-1: II, internal

Wireless DUAL PIR indoor detector

JA-186P

Designed to detect human body movement inside buildings. Detection in two zones gives high immunity to moving pets. The battery-powered detector communicates via Jablotron radio protocol. The normal installation height is 120 cm above the floor. The detector has two detection zones each of which covers an angle of 120° and a distance of 12 m. The imaginary dividing line between both zones is determined by the detector installation height. It is addressable and occupies one position in the alarm.

- Power: 1x lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: 120°/12 m (basic lens)
- Dimensions: 60 × 180 × 55 mm
- Compies with: EN 300 220, EN 50130-4, EN 55022, EN 60950-1
- Environment according to EN 50131-1: II, internal

Wireless PIR and MW combined detector

JA-180W

The detector is used for human motion detection in the interior of a building. Thanks to the combination of motion and microwave detection, the detector is highly resistant to false alarms. When motion is sensed by the PIR detector, the MW detector is activated to confirm the triggering of the PIR. Only after receiving a confirmed alarm signal from the MW unit, the detector sends an alarm report to the control panel. The detection characteristic may be optimised by using alternative lenses JS-7904 LONG HALLWAY, JS 7906 PET or JS-7901 CURTAIN. It is addressable and occupies one position in the alarm.

- Power: 1× lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: 120°/12 m (basic lens)
- Dimensions: 60 × 110 × 55 mm
- Optional lenses: corridor, curtain, pet
- MW detection range/MW frequency 0.5 to 20 m/9.35 GHz
- Environment according to EN 50131-1: II, internal
- Security level: grade 2, EN 50131-1, EN 50131-2-4, EN 50131-5-3

Wireless outdoor detectors

Wireless outdoor PIR detector

JA-188P

The JA-188P provides stable and accurate detection in outdoor environmental conditions. The outdoor motion PIR detector is based on a double-sensor motion detector produced by the company OPTEX. The detection range can be set in the axis of the optics from 1.4 to 12 m with a coverage angle of 85°. The JA-188P detector is fully wireless and compatible with the JA-100 system made by Jablotron.

- Power: 3× lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: PIR 12 m/85°, 94 segments
- Detectable speed: 0.3 to 1.5 m/s
- Height of installation: 2.5 to 3.0 m
- Operating temperature: –20 to 60 °C

Wireless dual zone outdoor motion detector – curtain

JA-187P

The JA-187P is designed to indicate disturbances outside the building caused by human bodies. It is a dual zone outdoor detector by Optex with a 5° angular width detection zone which makes it very suitable for guarding narrow spaces.The detector is powered by a lithium battery. The detector is equipped with three tamper contacts (at the front on the detection part and the front and rear on the transmission part), which immediately report opening of the detector cover or its tearing from the place of installation. The detector can also have the anti-masking function activated. The detector reports its current status via control transmissions to the system.

- Power: 1× lithium battery type LS(T)14500 (AA 3.6 V 2 Ah)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Detection range: 2 or 5 m/5°
- Installation height: 0.8 to 1.2 m
- Operating temperature: –20 to 60 °C

Wireless infra-red barrier

JA-180IR

The JA-180IR is designed to detect the interruption of infra-red beams by intruders walking between IR transmitters and receivers. The unit comprises an Optex sensor and a Jablotron transmitter and is powered by 4 lithium batteries. Tampering is also signalled to the control panel in addition to beam blocking and the results of regular self-testing.

- Power: 4× lithium batteries type LSH20 (3.6 V 13 Ah)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Installation height: 0.7 - 1 m, 60 m distance between units
- Operating temperature: –20 to 60 °C

Wireless perimeter protection detectors

Wireless Glass break detector

JA-185B

A small-size glass-break sensor which detects window breaking. It is designed for building interior installations. The glass-break detector uses the analysis of air pressure variations combined with the characteristic sound of glass-breaking.
It uses digital signal processing to avoid false alarms. It is addressable and occupies one position in the alarm.

- Power: 1× lithium battery type CR 14505 (AA 3.6 V)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 100 m (open area)
- Detection range: 9 m
- Dimensions: 46 × 88 × 22 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-7-1, EN 50131-5-3

Wireless magnetic detector with optional input terminal

JA-181M

Designed to detect doors or windows opening. The door opening detector reacts to the removal of its magnet unit. It can trigger an instant or delayed intruder alarm. Unauthorized handling such as opening or removal from its location is monitored. It can also be extended by a normally closed / normally open sensor. It is addressable and occupies one position in the alarm.

- Power: 1× lithium battery AA 3.6 V
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Input for external detectors: IN2 and TMP = normally closed loops, IN1 = normally closed or balanced loop (1k resistor)
- Dimensions: 30 × 110 × 27 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-6, EN 50131-5-3

Wireless magnetic detector – smaller design

JA-183M

The JA-183M offers a conveniently small size and great door detector features. It is designed to detect doors or windows opening. The door opening detector reacts to the removal of its magnet unit. It can trigger an instant or delayed intruder alarm. It is addressable and occupies one position in the alarm.

- Power: 1× lithium battery type CR-123A (3.0 V)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Dimensions: 31 × 75 × 23 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-6, EN 50131-5-3
- Complies with: ETSI EN 300 220, EN 50130-4, EN 55022, EN 60950-1

Wireless magnetic door detector

Coming soon

JA-150M

The JA-150M is designed to detect doors or windows opening. The door opening detector reacts to the removal of its magnet unit. It can trigger an instant or delayed intruder alarm. Unauthorized handling such as opening or removal from its location is monitored. It can also be extended by a normally closed / normally open sensor. It is addressable and occupies one position in the alarm.

- Power: 2 alkaline batteries AA 1.5 V
- Typical lifetime: 2 years
- Communicating protocol: 868 MHz
- Radio coverage: up to 300 meters (open area)
- Security level: grade 2, EN 50131-1, EN 50131-2-6, EN 50131-5-3, EN 50131-6
- Environmental according to EN 50131-1, II, internal
- Operating temperature range: –10 to 40 °C

Mini wireless magnetic detector

JA-151M

The JA-151M is designed for the detection of windows or door opening. It has a unique small design suitable for residential or commercial installations.
It is powered with a lithium battery type CR2032. It is addressable and occupies one position in the alarm.

- Power: lithium battery CR2032 (3 V, 220 mAh)
- Typical lifetime: approx. 2 years for maximum 100 activations per day
- Communicating protocol: 868 MHz
- Radio coverage: up to 200 m (open area)
- Detector dimensions: 26 × 55 × 16 mm
- Magnet dimensions: 16 × 55 × 16 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-6, EN 50131-5-3, EN 50131-6
- Environment according to EN 50131-1 II, internal
- Operating temperature range: –10 to 40 °C

Wireless invisible magnetic detector

JA-182M

The JA-182M is designed for the detection of windows (door) opening. An “invisible” magnetic sensor is installed into plastic or wooden window frames and is therefore totally discreet. The detector is suitable for use with the majority of manufactured windows. Some types of metal work are already prepared for the installation of this detector. It is addressable and occupies one position in the alarm.

- Power: 2× lithium battery type CR2354 (3 V)
- Typical lifetime: approx. 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 200 m (open area)
- Dimensions: 25 × 192 × 9 mm
- Security level: grade 2, EN 50131-1, EN 50131-2-6, EN 50131-5-3

Wireless Shock or Tilt Detector

JA-182SH

The detector's operation is controlled by two modes. The shock (vibration) detection mode monitors doors, windows, light partitions etc. indicating attempts at their overcoming by rough force. The tilt detection mode on the other hand detects the unauthorised handling of a valuable object. The detector uses a triple-axis semiconductor accelerometer with a digital output. Digital signal processing guarantees a high resistance to false alarms. The detector is powered by a battery and occupies a single position in the security system.

- Power: Lithium battery type CR-123A, 3 V 1400 mAh
- Detected tilt (depending on setting): 10° – 45°
- Typical battery life: Circa 2 years (for max. 20 activations a day in the power save mode)
- Operating frequency: 868 MHz
- Communication range: Circa 300m (direct visibility)
- Size: 75 × 31 × 26 mm
- Environment to EN 50131-1: II interior general
- Operational temperature range: -10 to +40 °C
- Security level: Grade 2, EN 50131-1 , EN 50131-5-3
- Compliance with standards: ETSI EN 300220, EN50130-4, EN55022, EN 60950-1

Wireless environmental detectors

Wireless fire and temperature detector

JA-150ST

The JA-150ST optical BUS smoke and temperature detector detects fire inside residential or commercial premises. It allows these settings: smoke and heat, smoke or heat, smoke only, heat only. It has an alarm memory function where the LED still lights after the alarm state is over. It is battery powered by alkaline batteries. It is addressable and occupies one position in the alarm.

- Power: 3× alkaline batteries AA 1.5 V
- Typical lifetime: 3 years
- Communication protocol: 868 MHz
- Fire detection: optical and heat
- Fire detection sensitivity: m=0.11/0.13 dB/m by EN 54-7
- Temperature detection: class A2 EN-54-5
- Alarm temperature: 60 to 70 °C
- Dimensions: diameter 126 mm, height 50 mm
- Operating temperature range: –10 to 80 °C

Wireless gas-leak detector

JA-180G

The JA-180G gas-leak detector is activated by combustive gases or fume leakages (Natural gas, Methane, Propane, Butane, Acetylene, etc). When activated the detector sets off the fire alarm and sounds a built-in siren. Its relay output can be used for example to shut down the gas inlet by means of a suitable electric gas valve. The detector performs regular self-testing. It is addressable and occupies one position in the alarm.

- Power: 230 V, 50 Hz, 2 W
- Communication protocol: 868 MHz
- Radio coverage: approx. 200 m (open area)
- Gas detection: hot platinum filament
- Coverage area: 50 m^3
- Sensitivity: optional 10 or 20 % LEL
- Relay output: dry relay switchover contact max. 5 A/230 V AC
- Acoustic power of the built-in siren: 94 dB/0.3 m
- Dimensions: 73 × 100 × 39 mm
- Complies with: EN 61779-1-4, ETSI EN 300 220, EN 60950, EN 50130-4, EN 55022

Wireless sirens

Two way wireless internal siren

JA-150A

The JA-150A wireless internal siren is designed to sound alarms, exit and entrance delays or to indicate other activations in the alarm system. The siren is equipped with a button with programmable reactions. It is addressable and occupies one position in the alarm.

- Power: 230 V, 50 Hz
- Communication protocol: 2 way Jablotron wireless protocol 868 MHz
- Backup-battery 3.6 V NiCD up to 170 mAh for 24 hours
- Maximum recharge time 72 hours, 10 mA
- Maximum standby consumption: 0.3 W at 230 V AC
- Security level: grade 2, EN 50131-1, EN 50131-4, EN 50131-6, EN 50131-5-3
- Environment according to EN 50131-1: II, internal
- Operating temperature range: –10 to 40 °C

Two way wireless external siren

JA-151A

The JA-151A wireless outdoor back-up siren is designed to sound alarms, chirps and PG output activation or deactivation. Built-in spirit-level for precise and easy adjusting during installation. It is addressable and occupies one position in the alarm.

- Voltage: 12 V DC adapter
- Communication protocol: 2 way Jablotron wireless protocol 868 MHz
- Backup-battery: 4.8 V NiCD up to 1800 mAh, for 24 hours
- Recharge time: up to 72 hours
- Maximum standby consumption: 50 mA from DC adaptors
- Security level: grade 2, N 50131-1, EN 50131-4, EN 50131-6, EN 50131-5-3
- Environment according to EN 50131-1: IV, external IP 45
- Operating temperature range: –20 to 60 °C

Remote controls

Key fob remote control – black

JA-186JK

The JA-186JK is designed to remotely control setting/unsetting, trigger panic alarms and control other appliances. A two button version of the case is also available. The user can independently control other devices, e.g. control panels and garage doors or the partial setting mode of the control panel. The key fob provides a useful button locking function. An easy procedure allows you to block the key fob from reacting to any buttons being pressed. Pressing two buttons simultaneously causes a panic alarm in the control panel.

- Power: alkaline battery type L1016 (6 V)
- Typical lifetime: approx 2 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 30 m (open area)
- Dimensions: 52 × 18 × 12 mm
- Complies with: ETSI EN 300 220, EN 55022, EN 50134-2, EN 50130-4, EN 60950-1

Key fob remote control – white

JA-186JW

The JA-186JW is designed to remotely control setting/unsetting, trigger panic alarms, and control other appliances. A two button version of the case is also available. The user can independently control other devices, e.g. control panels and garage doors or the partial setting mode of the control panel. The key fob provides a useful button locking function. An easy procedure allows you to block the key fob from reacting to any buttons being pressed. Pressing two buttons simultaneously causes a panic alarm in the control panel.

- Power: alkaline battery type L1016 (6 V)
- Typical lifetime: approx 2 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 30 m (open area)
- Dimensions: 52 × 18 × 12 mm
- Complies with: ETSI EN 300 220, EN 55022, EN 50134-2, EN 50130-4, EN 60950-1

Wireless Control

JA-182J

The JA-182J remote control serves for the remote setting/unsetting of the system, the activation of panic alarms and the control of other devices. The key fob is equipped with a practical inbuilt function of a “child lock” preventing the unauthorised activation of a command. If the function is on, to activate the device it is necessary to press the button twice within 1 second. A double push activates a panic alarm.

- Power: A lithium battery CR2032 (3 V, 220 mAh)
- Typical battery life: circa 2 years
- Operating frequency: 868 MHz
- Communication range: about 30 m (in open space)
- Size: 62 × 28 × 13 mm
- Compliance with standards: ETSI EN 300220, EN 55022, EN 50134-2, EN 50130-4, EN 60950-1

Wireless panic button

JA-188J

The JA-188J is mainly used as a wireless panic or emergency button. It is designed to be a remote control for setting/unsetting an alarm system or remotely controlling other appliances. It provides tamper contacts and monitors the voltage of its battery. The system reaction to button activation is optional. The basic reaction is a panic alarm or setting/unsetting the system (selectable). Other reactions can be chosen in control panel service mode.

- Power: alkaline battery type L1016 (6 V)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 300 m (open area)
- Dimensions: 80 × 80 × 29 mm
- Security level: grade 2, EN 50131-1, EN 50131-5-3

Wireless door bell button

JA-189J

The JA-189J works mainly as a doorbell button. The JA-189J can also be enrolled to the control panel as a hidden panic button or to operate PG outputs.

- Power: alkaline battery type L1016 (6 V)
- Typical lifetime: approx 2 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 50 m (open area)
- Environment external, protected
- Enclosure protection IP 41
- Dimensions: 80 × 28 × 15 mm
- Complies with: ETSI EN 300 220, EN 55022, EN 50130-4, EN 50134-2, EN 60950
- Operational temperature –25 to 50 °C

Wireless wrist button

JA-187J

The JA-187J panic button can remotely activate an emergency alarm or operate different devices. It is used mainly for the personal calling for help. The button can be worn like a wrist watch or around the neck on a cord. It is powered by battery.

- Power: lithium battery type CR 2032 (3 V)
- Typical lifetime: approx 3 years
- Communicating protocol: 868 MHz
- Radio coverage: approx. 50 m (open area)
- Environment: saved outside
- Enclosure protection IP 44
- Operational temperature –25 to 50 °C

Remote control for car

JA-185J

This module is designed for car installation and to control devices (for example garage doors, parking entrance gates). It is powered by 12 V or 24 V from the car. It can also be used for panic alarm transmission from a car to a home security system.

- Power: 12 - 24 V DC ± 30 %
- Communicating protocol: 868 MHz
- Radio coverage: 50 m (open area)
- Consumption: 0/20 mA (only during activation)
- Dimensions: 84 × 53 × 25 mm

RFID access card for JA-100

JA-190J

RFID access card for the JA-100 system.

- 125 kHz
- Jablotron unique code

RFID entry key tag for JA-100

JA-191J

RFID entry key tag for the JA-100 system.

- 125 kHz
- Jablotron unique code

RFID card and key tag reader for PC (connected by USB)

JA-190T

RFID card and tag readers designed to easily enroll the JA-190J and JA-191J to the JA-100 system by using F-link sw.

- USB RFID reader for JA-190J and JA-191J

Wireless power output module PG

JA-150N

The JA-150N is a wireless PG power output module (10 A/230 V AC). It copies the state of a selected PG output in the JA-100 system (PG1 to PG 32). A particular PG output is addressed on the PCB board by using 5 DIP switches. This module does not occupy any postion in the JA-100 system.

- Power: 0.5 W at 230 V AC
- 1 PG Output: 3× output terminals (C, NO, NC)
- Output relay load: max. 16 A/250 V
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

Wireless signal output module PG

Coming soon

JA-151N

The JA-151N is wireless PG power output module (1 A/24 V DC). It copies the state of a selected PG output in the JA-100 system (PG 1 to PG 32). A particular PG output is addressed on the PCB board by using 5 DIP switches. This module does not occupy any postion in the JA-100 system.

- Power: 12 - 24 V DC
- Output relay load: max. 1 A/30 V DC
- 1 PG Output: 3× terminals C, NC, NO
- Environment according to EN 50131-1, EN 50131-3: II, internal
- Operating temperature range: –10 to 40 °C

SOFTWARE

Alarm system configuration SW

F-Link

F-Link SW is designed for the easy programing of the JA-100 system. It offers step by step installation and programing procedures:
– number of sections
– zone mapping to sections
– zone and code management
– RFID card and key tag enrollment
– ARC management
– and many others

It is connected to the control panel by standard USB-B or remotely via the Internet.

Notes

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