


JABLOTRON
CREATING ALARMS



JABLOTRON JA-100 introduction

0212_c1

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Introduction

Today's goals

- ▶ Introduction of the brand new JA-100 alarm system
 - ▶ Visions
 - ▶ Basic architecture
 - ▶ System components
 - ▶ Setting
- Help us with final validations
 - We are keen to get your reports



Sales launch – Summer 2012 and market localisation will be ready.

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Introduction

Why a new alarm system?

- ▶ Perfect tool for installers
 - ▶ Security, access systems, home automation
 - ▶ High-tech level product, like never before
- ▶ For the user: "a lot more than he expects"
 - ▶ Friendly and smart control
 - ▶ New design of products – branded
- ▶ Ahead of our competition
- ▶ Investment in the future




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Introduction

Patented human interface - PRO HUMAN CONTROL

- ▶ Tailor-made keypad

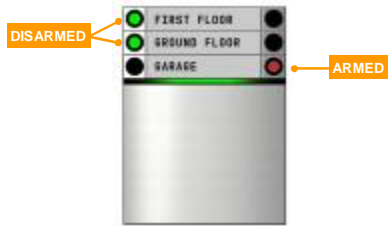


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Introduction

Patented human interface - keypad

- ▶ The EASIEST to understand

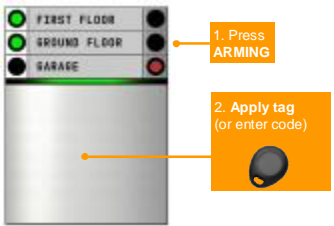


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Introduction

Patented human interface - keypad


- ▶ Intuitive control



Introduction **JABLOTRON**
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Flexible inside

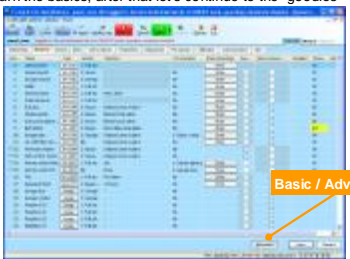
- ▶ Your selection of desired system size



Introduction **JABLOTRON**
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Selectable levels of functions

- ▶ First learn the basics, after that let's continue to the "goodies"



JA-100 structure **JABLOTRON**
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It will all fit perfectly, as you wish

- ▶ From 1 to 120 system devices/detectors
- ▶ From 1 to 15 independent sections
- ▶ From 1 to 300 users
- ▶ From 0 to 32 programmable PG outputs

JA-100 structure **JABLOTRON**
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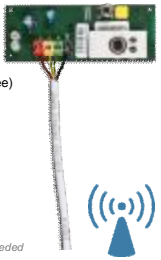
And much much more ...

- ▶ From 0 to 20 automated calendar events
- ▶ From 0 to 4 ARC settings (CID, SMS or IP protocols)
- ▶ From 0 to 30 users who can receive reports
- ▶ Selectable number of independent masters
- ▶ Selectable number of independent installers

JA-100 structure **JABLOTRON**
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Hybrid system = Digital BUS and wireless devices

- ▶ Digital BUS
 - ▶ 4 wires
 - ▶ Communication and power
 - ▶ Non-JA detectors connected by a module (w/o guarantee)
- ▶ Wireless devices
 - ▶ 868 MHz radio frequency
 - ▶ Up to 3 radio modules
 - ▶ Coverage of many hundreds of meters

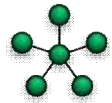


Digital BUS = we use a unique protocol to communicate, no balancing needed

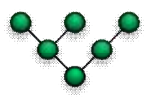
JA-100 structure **JABLOTRON**
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Digital BUS principles

- ▶ A mini-internet for data between control panel and devices
- ▶ Signals are like a wireless alarm system, but using wires instead of radio thru the air
- ▶ 4 wires
 - ▶ 2 for power supply
 - ▶ 2 for two-way data channel communication
- ▶ Simply connect detectors to the bus wires
 - ▶ no resistor balancing
- ▶ Much simpler than conventional wired connections



Star network
(Oasis, Profi)



Tree network (JA-100)



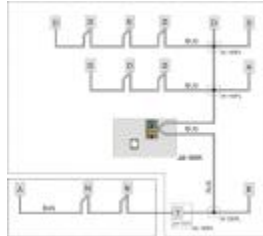
Architecture



Installing the BUS system

- ▶ **Total cable length max. 500 m**
 - ▶ Larger control panel 2 x 500 m
- ▶ Tree structure
- ▶ **NO closed loop (GND)**
- ▶ Outside the guarded area must be isolated
 - ▶ JA-110T – Digital BUS isolator

D – detector
E – keypad
T – isolator
A – siren
N – PG output



Architecture



Installing the BUS system

- ▶ Watch out for the voltage drop at the end of the line
 - ▶ Device current consumptions in one branch sum up
 - ▶ CC-01 and CC-02 Jablotron cables = functionality guaranteed
 - ▶ System diagnostics provided by Flink



CC-01, CC-02 colour-coded for the connectors plus indicated length



Architecture



Installing the BUS system

- ▶ The offer must be complete
 - ▶ Wire
 - ▶ Isolator and terminal modules
- ▶ Jablotron wires and terminals have colour coordination through the whole system
- ▶ Each device has a calculated power consumption



Standard cables (SYKFY etc.) can be used as well



Architecture - radio



Wireless devices

- ▶ Coded radio protocol 868 MHz (different from JA-8x series systems)
- ▶ Range: hundreds of meters (open area)
- ▶ The system must have a radio module
 - ▶ Up to 3 radio modules
 - ▶ Optimum coverage of protected premises
- ▶ Alkaline battery power supply
 - ▶ 2 year lifetime, monitored
- ▶ One-way communicating devices
- ▶ Bi-directional communicating devices

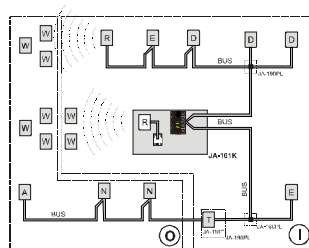


Architecture - radio



Up to 3 radio modules in the system

D – detector
E – keypad
T – isolator
A – siren
N – PG output
R – radio module
W – wireless device
I – inside of protected area
O – outside of guarded area



Architecture - devices



Devices


- ▶ **ADDRESSABLE devices**
 - ▶ Detectors, keypads, sirens, key fobs ...
 - ▶ Unassigned = yellow blinking
 - ▶ Enrolling or entering the production number
- ▶ **Without ADDRESSES in the system**
 - ▶ Output relays, isolators
 - ▶ Function selection by switch



Architecture - sections **JABLOTRON**
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System splitting

- ▶ Up to 15 sections
- ▶ Access limitation
 - ▶ Weekly calendar (2 intervals/day)
 - ▶ User with/without limit
- ▶ Partial setting (arming)
 - ▶ Optional for selected detectors
- ▶ Common section
- ▶ Option to report the unset status



Acoustic warnings and reports according to section.

Architecture - sections **JABLOTRON**
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System splitting – LARGE installations

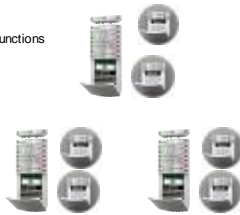
- ▶ Large keypad controls ALL
 - ▶ "HQ"
 - ▶ Segments for all sections and functions
 - ▶ Small keypads for smaller sections
- ▶ Can be used in
 - ▶ Company – departments – offices
 - ▶ House – home office – garage



Architecture - sections **JABLOTRON**
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System splitting – many independent systems


- ▶ Many independent systems (sections)
 - ▶ Up to 15 independent systems with their own control
 - ▶ Many independent common sections
 - ▶ Each keypad has its own sections and functions
- ▶ Can be used in
 - ▶ Apartment buildings
 - ▶ Offices in office buildings
 - ▶ Shops in a shopping mall
 - ▶ ...



Architecture - timing **JABLOTRON**
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New timing possibilities - calendars

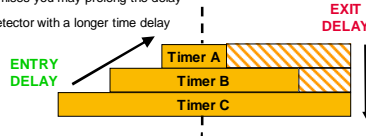
- ▶ Up to 20 independent calendars
- ▶ Calendar of automatic events
 - ▶ Weekly mode – selectable days and times
 - ▶ Switches on/off guarding – selectable sections
 - ▶ Switches PG outputs on/off – selectable PG



Architecture - timing **JABLOTRON**
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New timing possibilities – exit / entry delays

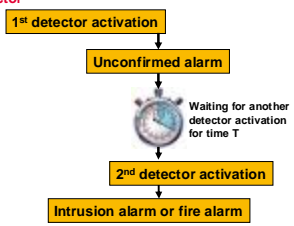
- ▶ 3 timers for entrance/exit delays A, B, & C
 - ▶ They are used individually in each section
 - ▶ Garage door function for timer C (with a time extension limit)
- ▶ When entering the premises you may shorten the delay
 - ▶ By triggering a detector with a shorter time delay
- ▶ When leaving the premises you may prolong the delay
 - ▶ By triggering a detector with a longer time delay



Architecture - timing **JABLOTRON**
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Timing = new reaction types in the JA-100

- ▶ Confirmation by another detector
 - ▶ Intrusion alarm
 - ▶ Fire alarm
- ▶ The system reaction
 - ▶ Instant confirmed
 - ▶ Delayed A confirmed
- ▶ Adjustable timing T
 - ▶ For intrusion T (0min – 60min)
 - ▶ For fire T (0min – 60min)



Can be confirmed by the same detector section or from any other section.



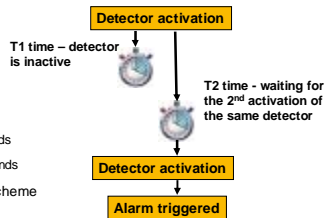
Architecture - timing

JABLOTRON
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Timing = new reaction types in the JA-100

Confirmation of alarm by the same detector

- Intrusion alarms only
- System reaction
 - Repeated instant
 - Repeated delayed A
- Adjustable timing
 - T1 – maximum 60 seconds
 - T2 – maximum 120 seconds
- T1 < T2 visible from the scheme

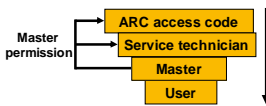


Architecture - access

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Access permissions

- User access = User codes
- Master access = Master codes
- Service access = Service code
- ARC access = ARC code
- Panic, set, PG only
- System with many Master and Service codes
- 2 main system modes
 - Service – not protecting, can be modified
 - Normal mode – ready to ARM



*Main service technician – position 0 (0*1010); main master - position 1 (1*1234).*



Architecture - users

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User authorization

- To operate the JA-100 system authorization is need
 - RFID chip/card – up to 2 per user
 - Codes From **0*nnnn** to **300*nnnn**
 - 0 to 300 are user positions
 - nnnn is a 4 digit code
 - A user can change the code himself
 - Phone number
- User authorization for
 - SET / UNSET
 - PG operation
 - Call out actions



A chip/card can only be assigned by entering a serial number in F-Link or by a JA-190T reader.



Architecture - communication

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GSM communicator

- GSM communicator on the board
 - It is already part of the control panel main board
 - Voice, SMS, data
- Reporting
 - ARC – IP protocol, SMS and voice CID
 - SMS to users
 - Voice messages
- Controlling and programming
 - By Internet
 - By SMS and voice



If more communicators are in the system, main and back-up can be set up.



Architecture - communication

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Other ways of communication with the outside world

- LAN communicator
 - It is part of the control panel (JA-106K version only)
 - Can be a backup for GSM or a main channel
- Phone communicator
 - Additional module for use within control panels JA-101K and JA-106K
 - Back-up channel for GSM or LAN Ethernet



If there are several communicators in the system, main and backup levels can be set up.



Architecture - communication

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User reports

- SMS reports are sent to up to 30 users
 - Alarm photos
 - Set / Unset
 - PG On / Off
 - Faults
- Voice messages sent to max. 15 users (5 at the same time)
- 4 special reports adjustable for detector activation A,B,C,D
- Selection of reported sections



Set/unset actions are not notified to the user who performs the action.

Logging into MY JABLOTRON

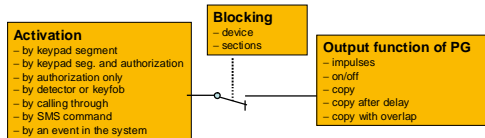


MY JABLOTRON example I You can see your alarm system's status and much more



32 PG outputs

- ▶ Appliance operation, electric lock operation
- ▶ Status indication (garage door open longer than 30 min. etc.)
- ▶ Bus and wireless modules for PG outputs



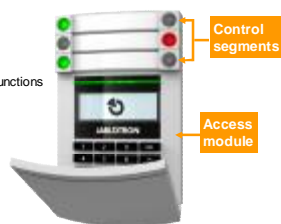
Not just a security system, it can do so much more...

32 PG outputs – setting by Flink SW



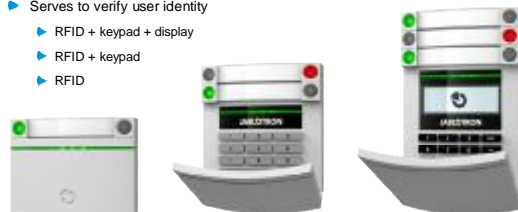
Keypad with a patented control system

- ▶ Easy
 - ▶ Easy and well arranged
 - ▶ Like traffic lights
- ▶ Smart
 - ▶ Control segments with variable functions
- ▶ Flexible
 - ▶ Fits exactly to a specific building
 - ▶ Size and functions



Access module

- ▶ Serves to verify user identity
 - ▶ RFID + keypad + display
 - ▶ RFID + keypad
 - ▶ RFID

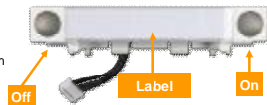


The golden middle way...



Operating segment

- ▶ Flexible function
 - ▶ Set/unset a section
 - ▶ Set partly/Set totally/Unset a section
 - ▶ PG on/off without authorization
 - ▶ PG on/off with authorization
 - ▶ Emergency (health, fire, attack) without authorization
 - ▶ Emergency with authorization
 - ▶ Section status indication
 - ▶ PG indication



Turn around 360° and click. Undo with a screw driver from the side. Do label printing using F-Link.



Customized keypad

- ▶ Access module
 - ▶ According to the needs of customers
 - ▶ Chip (Card) / Code / Display
 - ▶ Always 1 control segment
- ▶ Control segments
 - ▶ Guarding, appliances, emergency, indication
 - ▶ Max. 20
- ▶ Set up in F-Link program
 - ▶ Graphical display
 - ▶ Label printing for the segment



2 control panel sizes

- ▶ JA-106K
 - ▶ Large housing (power supply, space for backup battery)
 - ▶ Large BUS systems
 - ▶ Large wireless systems
- ▶ JA-101K
 - ▶ Smaller housing
 - ▶ Small BUS systems
 - ▶ Medium-sized wireless systems.



JA-101K control panel

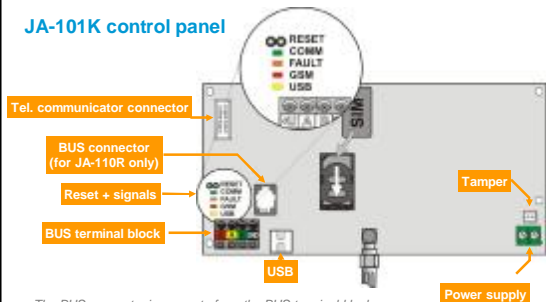
- ▶ Security level 2
- ▶ Contains GSM communicator
- ▶ 1GB memory card
- ▶ 2.6 Ah backup battery
- ▶ Continuous consumption 125 mA



Extension – larger Oasis. Does not include LAN.



JA-101K control panel



The BUS connector is separate from the BUS terminal block.



JA-106K control panel

- ▶ Based on the JA-101K
- ▶ Full system capabilities
 - ▶ GSM and LAN communicator
- ▶ 2 BUS connectors
 - ▶ 2 x 500 m cables
- ▶ 18 Ah backup battery
 - ▶ Continuous consumption 1 A



Control panels **JABLOTRON**
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JA-106K control panel

RESET
COMM
FAULT
GSM
USB

Tel. communicator connector

LAN

Power supply

2x BUS terminal blocks

BUS connector (for JA-110R only)

Control panels **JABLOTRON**
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2 control panel sizes

Features	JA-101K	JA-106K
max number of zones	50	120
max number of users	50	300
max number of independent sections	6	15
max number of programmable outputs	8	32
GSM/GPRS communicator	YES	YES
IP LAN (Ethernet) communicator	NO	YES
SMS reports and remote control by mobile phone	up to 8 users	up to 30 users
recommended backup battery 12V	2.6 Ah	18 Ah
maximum continuous output load	125mA	1.2A
max intermittent output load	1A	2A

The units have a defined current consumption for backup purposes.

Architecture - radio **JABLOTRON**
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JA-110R radio module

- ▶ Two main ways to install it
 - ▶ Direct installation into the control panel
 - ▶ RJ connector in the control panel
 - ▶ Installation on the BUS
 - ▶ Standard bus terminals

Architecture - radio **JABLOTRON**
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JA-110R radio module – inside

- ▶ It is addressable – occupies one position in the system
- ▶ Powered by BUS
- ▶ Enrolled by pressing TMP
- ▶ Monitors the radio interference level
 - ▶ LOW – interference longer than 30s in a period of 60 seconds
 - ▶ HIGH – interference longer than 10s in a period of 20 seconds

Antenna

Tamper contact

BUS terminals

Cable with connector

Devices are enrolled to the system, not to separate radio modules

System control **JABLOTRON**
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Operating options

JA-112E

JA-113E

JA-114E

JA-190J

JA-191J

JA-110I

For keypads 3 pairs of wires – if voice module is installed

System control **JABLOTRON**
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Control options - continuity

- ▶ In Oasis housings

JA-186JW

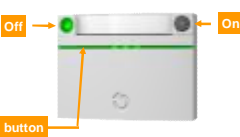
JA-185J

JA-187J
- ▶ Coming soon
 - ▶ A remote control in a new housing and with new features (2 and 4 buttons)

System control **JABLOTRON**
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JA-112E BUS access module

- ▶ RFID reader only
 - ▶ Special RFID chips and cards
- ▶ Backlit button aggregates information
 - ▶ Control segments – specified info
 - ▶ SMS details
- ▶ For small buildings
 - ▶ Control by chip only
 - ▶ Lock control




Backlit button = general system situation (OK, Alarm, failure etc.). Enrolled by button pushing

System control **JABLOTRON**
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JA-113E BUS access module

- ▶ RFID reader, keypad
 - ▶ Operated by code or chip
- ▶ Modular architecture
- ▶ Suitable for most buildings
 - ▶ Segments show system status
 - ▶ Setting/unsetting control, PG, emergency etc




The golden middle way. Enrolls by pressing the backlit button.

System control **JABLOTRON**
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JA-114E BUS access module

- ▶ RFID reader, keypad, graphical display
 - ▶ Operated by code or chip + menu
- ▶ Graphical display
 - ▶ Details
 - ▶ Keypad menu
 - ▶ i Information button
- ▶ System Menu
 - ▶ Complete setting
 - ▶ More information

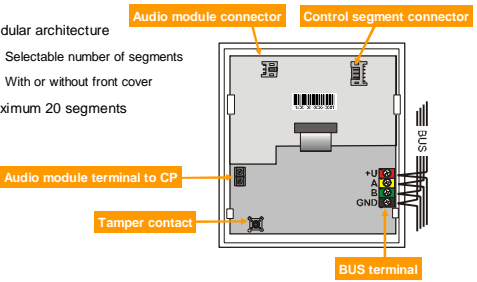


We also plan a voice module.

System control **JABLOTRON**
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JA-114E BUS access module


- ▶ Modular architecture
 - ▶ Selectable number of segments
 - ▶ With or without front cover
- ▶ Maximum 20 segments



System control **JABLOTRON**
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JA-110I BUS section indicator or PG output

- ▶ Optical signaling
 - ▶ Set/unset section status
 - ▶ PG output
- ▶ Device without an address
 - ▶ Does not fill up a position in the control panel

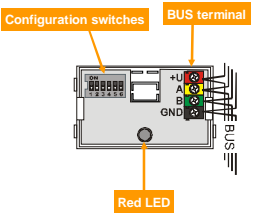


Several indicators can be set to signal the same section (several doors in a specific section).

System control **JABLOTRON**
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JA-110I BUS section indicator or PG output

- ▶ The number of switches used is limited only by power consumption on the bus
- ▶ Same module settings will indicate identically
- ▶ Indicates EW or IW in the section





Detectors

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BUS detectors – JA-11x series

JA-110P



JA-110M



JA-110B



JA-110ST



JA-111H



Detectors

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JA-110P BUS PIR motion detector

- ▶ Viewing angle 110°/12m
- ▶ 2 immunity levels against false alarms
 - ▶ Standard
 - ▶ Increased
- ▶ Optional signaling function
 - ▶ Yellow blinking = detector is not assigned
 - ▶ LED lights = failure
 - ▶ Red = activation, alarm memory

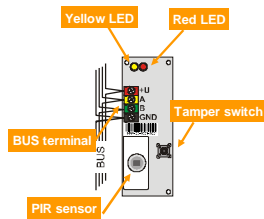


Detectors

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JA-110P BUS PIR motion detector

- ▶ Pulse reaction
- ▶ Detector internal setting – Flink SW
- ▶ Enrolled to the system by
 - ▶ pressing tamper
 - ▶ Entering production code



Alternative lenses –PET JS-7906, vertical curtain JS-7901 and long corridor JS-7904.



Detectors

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JA-110M magnetic door detector

- ▶ Occupies 2 positions
- ▶ Status reactions
- ▶ 2 alarm inputs
- ▶ Enrolling to the system
 - ▶ Pressing tamper
 - ▶ Entering production code



Max. length of input cable 3 m. Balanced 1k.

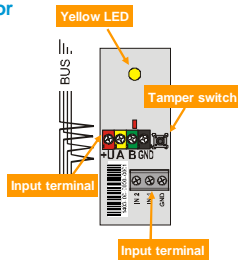
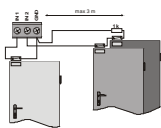


Detectors

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JA-110M magnetic door detector

- ▶ Internal setting – Flink SW
 - ▶ Input reaction (Balanced yes/no, OFF)
 - ▶ Input reaction delay (0.1s to 300s)
 - ▶ Inverted input reaction (NC / NO)
 - ▶ LED indication enabled



Detectors

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JA-110B BUS glass-break detector

- ▶ Dual method for detection
 - ▶ Air pressure changes
 - ▶ Sound of breaking glass
- ▶ Pulse reaction
- ▶ Enrolling by
 - ▶ Pressing tamper
 - ▶ Entering production code



Detectors **JABLOTRON**
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JA-110B BUS glass-break detector

- ▶ Detecting distance up to 9 m
 - ▶ Min. glass area size 0.6 x 0.6 m
- ▶ Setting the sensitivity – by a trimmer
 - ▶ GBT-212 tester, stabilization time approx. 60 s
- ▶ LED indication of activation

Detectors **JABLOTRON**
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JA-110ST BUS combined smoke and temper. detector

- ▶ Logic of alarm indication
 - ▶ Smoke
 - ▶ Temperature
 - ▶ Smoke or temperature
 - ▶ Smoke and temperature
- ▶ Testing 1x in 30 days
 - ▶ By test spray
 - ▶ **Never by fire**
- ▶ A fault is signaled by a yellow light

Enrolls to the system by covering the housing.

Detectors **JABLOTRON**
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JA-110ST BUS combined smoke and temper. detector

- ▶ Fire certification
 - ▶ EN 54-5 smoke
 - ▶ EN 54-7 heat
 - ▶ EN 54-25 radio smoke detectors
- ▶ Important for installation
 - ▶ Max. coverage 150 sq. meters (one detector)
 - ▶ The best position
 - ▶ Sloping ceilings
 - ▶ Center of the room

Detectors **JABLOTRON**
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BUS module for JA-111H connecting detector

- ▶ For non-BUS detector connection
- ▶ Activation and tamper inputs
- ▶ Selectable reactions in the system
- ▶ Detector power supply - max. 50mA
 - ▶ Take into account when calculating backup time
- ▶ Activation input
 - ▶ Time filter
 - ▶ Input logic (NO/NC)
- ▶ We cannot guarantee the functions of connected detector

The detector power supply isn't protected against overcurrent. The syst. wires don't extend to the detect. !

Detectors **JABLOTRON**
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Wireless detectors

- ▶ JA-15x series
 - ▶ New housing in JABLOTRON JA-100 design
 - ▶ Powered by alkaline batteries
 - ▶ Lifetime min. 2 years
- ▶ JA-18x series
 - ▶ In Oasis housings
 - ▶ We will gradually convert to new housings
 - ▶ Some devices will remain

Detectors **JABLOTRON**
CREATING ALARMS

JA-150P wireless motion PIR detector

- ▶ 2 working modes for the detector
 - ▶ **Smartwatch – for real time detection**
 - ▶ Typically residential areas (large motion in unset mode)
 - ▶ Motion sent to the control panel in 3 x 20 s mode, after 1x 2 min
 - ▶ If no motion for 10 min, restores mode 3 x 20 s
 - ▶ Default setting
 - ▶ 1 min sleep mode

Pushed/unpushed TAMPER when inserting the battery selects working mode.

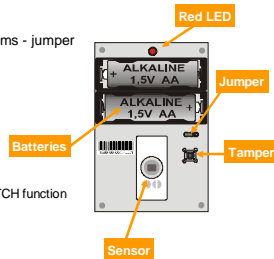


Detectors

JABLOTRON
CREATING ALARMS

JA-150P wireless motion PIR detector

- ▶ Detection range 110°/12m
- ▶ 2 immune levels against false alarms - jumper
 - ▶ Normal
 - ▶ High
- ▶ Red light
 - ▶ 15 min testing mode
- ▶ Battery lifetime – 2years
 - ▶ Longest lifetime with SMARTWATCH function



Alternative lenses.

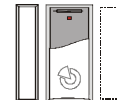


Detectors

JABLOTRON
CREATING ALARMS

JA-151M mini wireless magnetic detector

- ▶ Compact dimensions (55 x 26 x 16 mm)
- ▶ One magnetic sensor
 - ▶ Both-sided installation is possible
- ▶ Status and pulse reactions
 - ▶ Radio range up to 200m (open area)
- ▶ Enrolling by inserting batteries
- ▶ CR-2032 battery
- ▶ Typical lifetime 2 years (20 activations/day)



Pushed/unpushed TAMPER when inserting the battery selects reaction – status/pulse.



Detectors

JABLOTRON
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JA-18x Wireless detectors

- ▶ Motion PIR and combination detectors
 - ▶ JA-185P – mini-size wireless motion detector
 - ▶ JA-180W – PIR/MW motion detector
 - ▶ JA-180PB – PIR/Glass break detector
 - ▶ JA-186P - dual-zone (PET immune) PIR motion detector
 - ▶ JA-188P – dual-zone outdoor PIR detector
- ▶ Magnetic detectors
 - ▶ JA-181M – magnetic door detector & universal transmitter
 - ▶ JA-182M – magnetic door detector
 - ▶ JA-183M – magnetic compact door detector



Detectors

JABLOTRON
CREATING ALARMS

JA-18x Wireless detectors and devices

- ▶ Environmental detectors
 - ▶ JA-180G - gas detector
- ▶ Control
 - ▶ JA-186JW – remote keyfob white
 - ▶ JA-186JB – remote keyfob black
 - ▶ JA-185J – remote control (suitable for cars)
 - ▶ JA-187J – wrist button
 - ▶ JA-188J – wall button
 - ▶ JA-189J – doorbell button



Output equipment

JABLOTRON
CREATING ALARMS

Output equipment

- ▶ Sirens, PG outputs
- ▶ Bus and wireless versions (only bus at the moment)
- ▶ Communicators – part of the control panel

JA-110A



JA-111A



JA-111N



JA-110N



Output equipment

JABLOTRON
CREATING ALARMS

JA-110A Bus internal siren

- ▶ Alarm siren (with section assignment)
- ▶ Accoustic PG signaling
- ▶ Set and unset status change signaling
- ▶ Entrance and exit delay signaling
- ▶ Button – optional functions
 - ▶ Alarm muting, not cancelling alarms + intruder confirmation sent to ARC
 - ▶ Silent panic alarm



Enrolls to the system by pressing the button.

Output equipment **JABLONTRON**
CREATING ALARMS

JA-110A Bus internal siren

- Internal settings programmed by Flink SW

Enrolls to the system by pressing the button.

Output equipment **JABLONTRON**
CREATING ALARMS

JA-111A BUS external siren

- Back-up siren (with section assignment)
- Acoustic PG signaling possible
- Set and Unset status signaling possible (chirp)
- Backup battery
 - If power supply lost, sounds for 3 minutes
 - Not when system is in service mode

If power supply is lost due to empty backup battery in the control panel, it does not sound.

Output equipment **JABLONTRON**
CREATING ALARMS

JA-111A BUS external siren

- Internal setting programmed by Flink SW

Output equipment **JABLONTRON**
CREATING ALARMS

JA-110N/JA-111N BUS PG relay module

- JA-110N - 16A/250V – power switching relay
- JA-111N – 2A/120V – low power switching relay
- Switch contact
- Has no address
 - DIP switch selects which PG o/p

BUS components **JABLONTRON**
CREATING ALARMS

BUS creation

Bus components **JABLONTRON**
CREATING ALARMS

JA-110T BUS short circuit isolator module

- Protecting the digital BUS in outside areas
- Isolates two parts of the bus (NOT electrically)
- Should be installed in the inside guarded area
 - into JA-190PL
 - Into a control panel
 - Into a standard mounting box
- Do not connect multiple isolators in series**

1 – inner (guarded) area
0 – outer (unguarded) area
1 – separation of the outer bus branch
2 – bus length extension over 500m



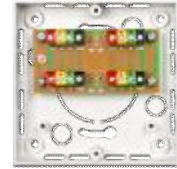
JA-110Z and JA-111A BUS splitting module

- ▶ Installed
 - ▶ into JA-190PL installation box
 - ▶ into control panel
 - ▶ into a standard mounting box
- ▶ For terminal blocks
- ▶ PG modules etc.
- ▶ Certification for installation on a flammable surface



BUS splitting

- ▶ JA-190PL installation box
 - ▶ For terminal blocks
 - ▶ Isolators modules
 - ▶ PG modules etc.
 - ▶ Certification for installation on a flammable surface



JA-100 JABLOTRON system installation

- ▶ Connect USB cable
 - ▶ A driver does not need to be installed
- ▶ Activate F-Link
 - ▶ Download
 - ▶ Install the SW
- ▶ Set up parameters and functions
 - ▶ Bubble help



Let's see a window. A practical part will be held during tomorrow's workshop



Questions?



Thank you
End of 2nd part